PERIODICAL ROOM
GENERAL LIBRARY
UNIV. OF MICH.

JANUARY 1933 N° 54 Vol. XVIII (3)

ISIS

Quarterly Organ of the History of Science Society and of the International Committee of the History of Science.

FOUNDED AND EDITED BY

GEORGE SARTON, D. Sc.
Associate of the Carnegie Institution of Washington.
(Harvard Library 185, Cambridge 38, Mass., U.S.)

Managing Editor:

L. GUINET, 11, place Général Meiser, Brussels, Belgium.

Associate Editors:

C. H. HASKINS, Harvard University, Cambridge, Mass. *(Middle Ages).*
R. C. ARCHIBALD, Brown University, Providence, R. I. *(Mathematics)*
J. K. WRIGHT, American Geographical Soc., New York, N. Y. *(Geography).*
D. B. MACDONALD, Hartford Theological Seminary, Hartford, Conn. *(Islam).*
C. A. KOFOID, University of California, Berkeley, Calif. *(Biology).*
LYNN THORNDIKE, Columbia University, New York, N. Y. *(Middle Ages).*
SOLOMON GANDZ, Yeshiva College, New York, N. Y. *(Israel).*
T. L. DAVIS, Mass. Institute of Technology, Cambridge, Mass. *(Chemistry).*
H. T. DAVIS, Indiana University, Bloomington, Ind. *(Philosophy of Science).*
A. POGO, Carnegie Institution, Cambridge, Mass. *(Astronomy).*
C. D. LEAKE, University of California, San Francisco, Calif. *(Medicine).*

Isis may be obtained from any Bookseller at the price of 6 dollars per volume illustrated. Members of the History of Science Society receive each year at least one volume of about 600 p. free of charge. Annual dues, 5 dollars. Corresponding Secretary, F. E. Brasch, Library of Congress, Washington, D. C., U. S. A. European Secretary, L. Guinet, 11, place Général Meiser, Brussels, Belgium.

THE SAINT CATHERINE PRESS LTD
51, rue du Tram, BRUGES (BELGIUM)

Printed in Belgium

The History of Science Society

The organization of this Society was the result of a constantly growing interest in the study of the history of science. In 1919 a group of scholars interested in the cultural phase of science, under the direction of Dr. Lynn Thorndike, formed a section of the American Historical Association. In 1920 a similar section was organized in the American Association for the Advancement of Science, with the late Dr. William A. Locy as chairman. The formation of The History of Science Society by Dr. David Eugene Smith was the result of the merging of these two groups. The need of an organization of this kind was evidenced by the rapid recognition accorded The History of Science Society. It was organized in Boston, January 12, 1924, and was incorporated under the laws of the District of Columbia, January 30, 1925. It was affiliated with the American Association for the Advancement of Science, April 26, 1925, and admitted as a constituent member of the American Council of Learned Societies, February 2, 1927. The Society meets annually, usually with the American Association for the Advancement of Science or the American Historical Association, and participated actively in the Second International Congress of the History of Science and Technology in London in 1931.

Officers of the Society:

President—Berthold Laufer, Field Museum of Natural History, 1932.
Vice Presidents—J. Playfair McMurrich, Toronto University.
Ernest W. Brown, Yale University.
Treasurer and Corresponding Secretary—Frederick E. Brasch, Library of Congress, Washington, D. C.
Recording Secretary—Leo G. Simons, Hunter College, New York, N. Y.
Editor of ISIS—George Sarton, Harvard University, Cambridge, Mass.
Managing Editor—L. Guinet, Brussels, Belgium.

Members of the Council:

Henry Crew, Chicago, Illinois.
Arnold C. Klebs, Nyon, Switzerland.
Vera Sanford, Cleveland, Ohio.
Stephen d'Irsay, Rome, Italy.
Chauncey D. Leake, San Francisco, California.
Henry E. Sigerist, Baltimore, Maryland.
Herbert McLean Evans, Berkeley, California.
Mary Louise Foster, Northampton, Massachusetts.
David Eugene Smith, New York City.
Elbe H. Johnson, Gambier, Ohio.
Victor Robinson, New York City.
Henry G. Gale, Chicago, Illinois.
Richard H. Shryock, Durham, North Carolina.
George E. Roberts, New York City.
Alfred C. Lane, Cambridge, Massachusetts.

Delegates to the American Council of Learned Societies:

Harry W. Tyler.
Lynn Thorndike.

Representatives to the American Association for the Advancement of Science:

F. B. Dains.
Joseph Mayer.

ISIS

International Review devoted to the History
:: of Science and Civilization ::
Quarterly Organ of the History of Science Society and of the International Committee of the History of Science.

SUMMARY
of No. 54 (Vol. XVIII, 3)
(184 p.)

I. Main article.

S. R. Das *(Calcutta)*. — The Jaina Calendar 432

II. *Notes and Correspondence* (3).

I. *History of Science*. — Aberration of light (R. S. Webb) . . 438
II. *Miscellanea*. — Centre international de Synthèse. — Troisième centenaire de la naissance de John Locke 438

III. *Thirty-fourth Critical Bibliography of the History and Philosophy of Science and of the History of Civilization (to March 1932) (671 items)* 440

IV. *Index of Authors to Volumes XVI, XVII*, and *XVIII* . . 541

The Jaina Calendar

The astronomical chronological period on which the Jaina system is based is the well-known quinquennial yuga or cycle which is the same as that of the Jyotiṣa Vedāṅga. The same cycle is described in the Garga Saṃhitā as is seen from the extant fragments of the latter work, and it is also learnt from VARĀHAMIHIRA's Pañcasiddhāntikā that it likewise formed the fundamental doctrine of Paitāmaha Siddhānta which, according to VARĀHAMIHIRA's judgment, was one of the more important Siddhāntas known at his time. References to this cycle are met with in the early history of Buddhism.

In the Jaina astronomy a yuga consists of five years and begins with Abhijit. The lunar year and also the solar year commence at the same point or day and close at the same point or day once in every cycle of 30 years which is equal to 6 cycles of five years each. For the lunar year gains 6×2 months and thus completes one complete intercalary year. Similarly, the solar, the Sāvana or seasonal, the lunar, and the Nakṣatra years begin on the same day and close on the same day or simultaneously begin and close once at the end of 12 cycles of 5 years each, i.e., 60 years. It must be noted here that the lunar year is really equal to 354 days $5\frac{50}{62}$ muhûrtas. In a cycle of five years, there are 60 solar months, 61 Ṛtu months, 62 lunar months and 67 Nakṣatra months. Similarly, the intercalary lunar year, the solar, the Ṛtu or Sāvana, the lunar and the Nakṣatra years will simultaneously begin and close once in a great cycle of 156 cycles of 5 years each; for 156×5 years make 744 intercalary lunar years, 780 solar years, 793 Ṛtu years, 806 lunar, and 871 Nakṣatra years.

One Nakṣatra year = $327\frac{51}{67}$ days.
One Lunar year = $354\frac{12}{62}$ days.
One Ṛtu year = 360 days.
One Solar year = 366 days.

The intercalary lunar year = 38 days $21\frac{18}{62}$ months.

The moon moves and unites 67 times with Abhijiṭ in a yuga of 5 years. The sun comes in contact five times with the same star in a yuga.

The names of the months are :

Modern names	Jaina names
1. Śrāvaṇa	Abhinanda
2. Bhādrapada	Supratiṣṭha
3. Aśvayuja	Vijaya
4. Kārtika	Prîtivardhana
5. Mārgasîrṣa	Śreyān
6. Pauṣya	Śiva
7. Māgha	Śiśira
8. Phālguna	Haimavān
9. Caitra	Vasanta
10. Vaisākha	Kusumasaṃbhava
11. Jaiṣṭha	Nidāgha
12. Āṣādha	Vanavirodhi

The year of the saṃvatsara is of four kinds :

(1) Nakṣatra-saṃvatsara = 12 Nakṣatra māsas = 12 × $27\frac{21}{67}$ days = 327 days $\frac{51}{67}$ days.

(2) Yuga-saṃvatsara (cyclic year) = 5 years.

(3) Pramāṇa-saṃvatsara.

(4) Saturn year.

The first is of 12 kinds as Śrāvana, Bhādra pada, etc.; when Jupiter completes the whole circle of constellations once, it is called, a Nakṣatra-saṃvatsara of 12 years. Lunar year $=29\frac{32}{62}$ × 12 = 354 days $\frac{12}{62}$ day.

Intercalary Lunar year = 383 $\frac{44}{62}$ days.

Saura or Solar year = 12 × 30½ = 366 days.

Thus, once in 30 solar months there will be one intercalary lunar month. Hence in a yuga of 60 solar months there will be two intercalary lunar months. Each lunar month contains two parvas. Therefore, a lunar year contains 24 parvas, and an intercalary year 26 parvas.

The pramāṇa-saṃvatsara is of five kinds : Nakṣatra (sidereal), Ṛtu (seasonal), Candra (lunar), Āditya (solar) and intercalary lunar. The Ṛtu and Āditya-saṃvatsaras are thus explained :

2 Ghaṭikās make one Muhûrta

30 Muhûrtas make one Day and Night
15 Ahorātras (Days and Nights) make one Pakṣa
2 Pakaṣas make one Month
12 Months make one Year.

The year of 360 days and nights is a Ṛtu-saṃvatsara. This has two more names, Karma-saṃvatsara and Sāvana-saṃvatsara. Karma = work (laukika vyāvahāra). Hence that year which is prominently observed by workmen is so called. The Karma month has no fraction and facilitates work and wordly transactions; the rest have fractions and are difficult to use. Sāvana means engagement in work. Hence that year which is chiefly agreeable to work is Sāvana year. The year of 360 days is called Karma and also Sāvana year. Similarly, the solar year is the time taken by the rainy and other seasons for completion of one revolution. It is, however, usual to assign 60 days to each of the seasons. Still each one of them has 61 days. Hence the solar year contains 366 days. In a yuga there are three ordinary lunar years of $354\frac{12}{62}$ days and two intercalary years of $383\frac{40}{62}$ days. Hence in a yuga there are 62 lunar months and 67 Nakṣatra months.

Now a solar year is equal to 366 days; hence one solar month is $\frac{366}{12} = 30\frac{1}{2}$ days; A Karma-saṃvatsara = 360 days ; hence one Karma-month $= \frac{360}{12} = 30$ days. A lunar year $= 354\frac{12}{62}$ days ; hence lunar month $= \frac{354\frac{12}{62}}{12} = 29\frac{32}{62}$ days (1). One Nakṣatra year $= 327\frac{51}{67}$ days ; hence one Nakṣatra month $= \frac{327\frac{51}{77}}{12} = 27\frac{21}{67}$ days. An intercalary lunar year $= 383\frac{44}{62}$ days ; hence one intercalary lunar month $= \frac{383\frac{44}{62}}{12} = 31\frac{121}{124}$ days.

In a yuga or cycle of 5 years or 1830 days, there are 60 solar months, or 61 sāvana months, or 62 lunar months or 67 Nakṣatra months or 57 intercalary months, 7 days, $11\frac{23}{62}$ muhûrtas, for an intercalary month $= 31\frac{121}{124}$ days and therefore $31\frac{121}{124}\overline{\big)1830} = \frac{226920}{3965} =$ 57 months, 7 days and $11\frac{23}{62}$ muhûrtas.

Again one lunar month is divided into two parts or parvas, the white half contains $\frac{29\frac{32}{62}}{2}$ days $= 29\frac{32}{62} \times 15$ muhûrtas =

(1) The difference between Karma-māsa and lunar month which is equal to $30 - 29\frac{30}{62} = \frac{32}{62}$, makes Avama-rātras. The difference due to one day is $-\frac{1}{62}$. Hence in 62 days there will be one complete Avama-rātra.

$442\frac{46}{62}$ muhûrtas, and the dark half also $442\frac{46}{62}$ muhûrtas. A tithi or lunar day is equal to $\frac{61}{62}$ parts of a day as it is equal to $\frac{29\frac{32}{62}}{30} = \frac{1830}{62 \times 30} = \frac{61}{62}$ day. Hence a day being divided into 30 muhûrtas, a tithi will be equal to $\frac{61}{62} \times 30$ muhûrtas $= 29\frac{32}{62}$ muhûrtas. The tithis are of two kinds: (1) day tithis and (2) night tithis. Both kinds are divided into a week of five lunar days, called (*a*) Nanda, (*b*) Bhadra, (*c*) Jaya, (*d*) Tuccha, (*e*) Pûrṇa, in the case of day tithis; and (*a*) Ugravatî, (*b*) Bhogavatî, (*c*) Yaśomatî, (*d*) Sarvasiddhā and (*e*) Śubhanāmnî, in the case of night tithis. Thus three weeks of day tithis and three weeks of night tithis will make fifteen complete lunar days.

The Jaina astronomical works mention five seasons, viz., the rains, the autumn, the dewy, the spring and the summer. The seasons are of two kinds, the solar and the lunar. The solar season is equal to two solar months = 61 days. The seasons commence with the Āṣāḍha month, though the cycle of 5 years commences with the 1st day of the dark half of the month of Śrāvaṇa. Hence a connection may be sought with the word, Varṣa (year), and it is surmised that the year must have come to acquire this denomination from the fact of the year beginning with Varṣā or rainy season (2). It may also be mentioned here that KAUTILYA, in his Arthaśāstra, says that the year in his time began with the summer solstice at the end of Āṣāḍha. (3)

Now to determine the season on any day, we are to count the number of parvas elapsed since the beginning of the cycle and multiply it by 15 in order to reduce them to lunar days; then we add the day in question; next we deduct the Avama days at the rate of $\frac{1}{62}$ per day; we then double the remainder and add again 61. Then we divide the sum by 122 and the quotient by six; the latter quotient is the number of expired Ṛtus and the remainder divided by two gives the days of the current season. For example, to determine the season on the 1st Dîpotsava day, we find the number of parvas from the beginning of the cycle on the 1st day of the dark half of Śrāvaṇa to the day in question to be 7. Therefore $7 \times 15 = 105$ lunar days. Now

(2) Vide a paper on the seasons and the year beginning of the Hindus by SUKUMAR RANJAN DAS published in the *Indian Historical Quarterly*, Dec. 1928.

(3) Vide KAUTILYA's Arthaśāstra.

$105 \times \frac{1}{62}$ = nearly 2, i.e. two Avama rātris. Deducting this from 105, we have 103. Then $103 \times 2 = 206$, $206 + 61 = 267$ $267 \div 122 = 2\frac{23}{122}$, $\frac{23}{2} = 11\frac{1}{2}$. Then counting the seasons from Āṣāḍha we may say that two seasons are past and that 11 days have elapsed in the third season.

Now with regard to the question which season closes with what lunar day, we are to take the number of the seasons in question, double it, duduct one from it, double it again and then keep this product in two rows, One indicates the number of parvas and the other being reduced to half shows the number of lunar days (tithis). For example, to find on what lunar day the first season in a cycle happens, we get $1 \times 2 - 1 = 1$, again $1 \times 2 = 2$ keeping on two rows, as 2 2, we halve the latter 2. The result is that 2 parvas have elapsed and that on the Pratipat day the first Ṛtu closed. Similarly for the second season, we get $2 \times 2 - 1 = 3$, $3 \times 2 = 6$. Then we have 6 and 3. That is, 6 parvas have elapsed and that on the 3rd day the second season has closed. So on.

Now in one sidereal revolution of the moon, the lunar seasons are six. Hence in a cycle of 5 years which is equal to 57 sidereal revolutions of the moon there are $6 \times 67 = 402$ lunar seasons. In one lunar season there are $4\frac{37}{67}$ days. Because one sidereal revolution of the moon = 6 seasons, one revolution is $= 27\frac{21}{67}$ days, and therefore, one season $= 27\frac{21}{67} \div 6 = 4\frac{37}{67}$ days. The formula to determine the lunar seasons is as follows : Multiply by 15 the number of parvas that has elapsed from the beginning of the cycle; then add the remaining number of days above the parvas, if any. Then deduct Avama rātras at $\frac{1}{61}$ per day. Then multiply the remainder by 134 and add to the product 305 and divide the sum by 610. The quotient is the number of Ṛtus. For example, to find the Ṛtu on the 5th day of the 1st parva from the beginning of the cycle, we get $5 - 1 = 4$, $4 \times 134 = 536$, $536 + 305 = 841$, $841 \div 610 = 1\frac{231}{610}$. Then the result is the first season. Taking the remainder 231, divide it by 134, this gives $\frac{231}{134} = 1\frac{97}{134}$, i.e., one day and 48½ sixty-seventh parts of the second day have elapsed. To know what season there will be on the 11th day of the second parva from the beginning of the cycle, we get 1 parva having elapsed, $1 \times 15 + 10$ (as 10 days have elapsed up to the 11th day) $= 25$, $25 \times 134 = 3350$,

$3350 + 305 = 3655$. $3655 \div 610 = \frac{3655}{610} = 5\frac{605}{610}$, i.e. 5 Ṛtus have elapsed. Now $\frac{605}{134} = 4\frac{69}{134}$, i.e. 4 days and 34½ sixty sevenths of a day have elapsed after 5 Ṛtus.

In order to determine the closing day of a lunar season the following method is given. As in the case of solar seasons, multiply the constant $\frac{305}{134}$ by one for the first and by $2 \times$ number of seasons for the second and other seasons up to the last season; and divide the product by 134. Then the quotient is the number of lunar seasons expired. For example, for the first lunar season, the constant is $\frac{305}{134}$; multiply by 1. Then $\frac{305}{134} = 2\ \frac{37}{134}$. Hence after 2 days and 18½ sixty-sevenths of the third day the 1st lunar season attains completion. For the 402nd season, $\frac{305}{134} \times (2 \times 401 + 1) = \frac{305}{134} \times 803 = \frac{244915}{134} = 1827\ \frac{97}{134}$. That is, the 402nd season will be completed when 1827 days and 48½ sixty-sevenths of a day after those days have elapsed.

Calcutta. SUKUMAR RANJAN DAS.

Notes and Correspondence

I. History of Science.

Aberration of Light. — (Reference : *Isis*, XVI, 235-36.) MAUPERTUIS seems to have applied the correction for aberration in the field, in Nov. 1736 and April 1737. See *Figure de la terre*, p. 41-45, 48, 69.

He had corresponded with BRADLEY regarding the new corrections to star places. BRADLEY had warned him that aberration was not the only cause of displacement, but that a second small, long-period variation had been noticed. BRADLEY himself, by 1736, had come to the conclusion that this second correction might be due to an oscillation of the Earth's axis; but he probably kept his explanation to himself at this time.

It may be that CELSIUS brought information from BRADLEY, when he joined MAUPERTUIS at Dunkerque (April 27, 1736) : see OUTHIER's *Journal*, p. 5. CELSIUS came direct from London.

Note that GRANT explicitly states that the term " aberration " was due to BRADLEY himself. See *History of physical astronomy*, p. 340.

It would seem possible that the use of the word may be found in BRADLEY's own letters.

Paarl, S. Africa. R. S. WEBB.

II. Miscellanea.

Centre International de Synthèse. — Du 17 au 21 mai 1932, le Centre International de Synthèse a donné sa « 4e Semaine de synthèse ». Deux sujets d'études figuraient à l'ordre du jour : l'évolution de la physique et la philosophie, d'une part; la foule, d'autre part.

Au premier groupe ont été faits les exposés suivants, chacun d'eux suivi d'une discussion : P. LANGEVIN : Physique moderne et philosophie; L. DE BROGLIE : Réflexions philosophiques d'un physicien sur les quanta et la nouvelle mécanique; C. SERRUS : l'Espace et le temps en physique et en philosophie; L. BRUNSCHVICG : Géométrie et finesse; A. REY : Physique et réel.

Le deuxième groupe a entendu les exposés, également suivis de discussions, de G. BOHN : le Grégarisme; G. HARDY : la Foule dans les sociétés dites primitives; P. ALPHANDÉRY: Foules historiques, les foules religieuses ; G. LEFEBVRE : Foules historiques, les foules révolutionnaires; E. DUPRÉEL : Y a-t-il une foule diffuse? l'opinion publique.

L. S.

John Locke. — Le troisième centenaire de la naissance de JOHN LOCKE a été célébré le samedi 27 août 1932 à Wrington, près de Bristol. La cérémonie a eu lieu auprès d'une pierre qui marque l'endroit où se trouvait sa maison natale. Une exposition de livres et de manuscrits de LOCKE avait été organisée à l'occasion du centenaire par la grande et vieille librairie BUMPUS dans Oxford str. à Londres.

Personalia. — In order to increase the speed of publication, all the notes concerning the teaching of the History of Science, obituaries, commemorations, anniversaries, in short all the " news " should be addressed directly to the Managing Editor, Mr. L. GUINET, 11, place Général Meiser, Brussels, Belgium.

Thirty-Fourth Critical Bibliography

of the

History and Philosophy of Science and of the History of Civilization

(*to March* 1932)

This thirty-fourth Bibliography contains about 671 items, some of which have been kindly contributed by the following scholars :

C. W. ADAMS (Hertford, England)
H. G. BÉVENOT (Weingarten Abbey, Württemberg)
T. L. DAVIS (Cambridge)
F. M. FELDHAUS (Berlin)
L. GUINET (Brussels)
C. A. KOFOID (Berkeley, Cal.)
E. KREMERS (Madison, Wisc.)
C. D. LEAKE (San Francisco)
J. PELSENEER (Brussels)
L. SAPIN (Brussels)
H. R. VIETS (Boston)
M. C. WELBORN (Cambridge).

This bibliography includes the fifteenth series of addenda and errata to Volume I of the *Introduction to the History of Science* (Baltimore and London, 1927). An index of authors will be found at the end.

Papers and books sent to the Editor are entered into this bibliography if they are relevant to its purpose. They may be the object of analytical notes or longer reviews, if this seems sufficiently necessary and the services of competent scholars are available. It is obvious that only a small number of publications can be adequately reviewed and that it is not even possible to give a brief description of each and every one. However, our classification is so comprehensive and so minute, that even if we do nothing but give the accurate title of an item and put it in the proper place, we are already rendering a real service to the author, the publisher, and the learned public. There is no relation between the importance of a publication and the length of the note devoted to it.

The ultimate aims of this undertaking are : (1) to establish the History of Science as an independent discipline ; (2) to demonstrate inductively the Unity of Knowledge and the Unity of Mankind ; (3) to serve as a center of information and rallying ground to the scholars engaged in our studies.

GEORGE SARTON.
American University
Beirut, Syria.

ALEXANDER POGO.
Harvard Library, Study 189
Cambridge, Massachusetts
April 1, 1932.

PART I

FUNDAMENTAL CLASSIFICATION (CENTURIAL)

IXth Century B.C.

Bérard, Victor. La résurrection d'HOMÈRE : au temps des héros. 257 p. Paris, GRASSET, 1930. ISIS

Böhme, Joachim. Die Seele und das Ich im homerischen Epos. Mit einem Anhang : Vergleich mit dem Glauben der Primitiven. VI + 132 p. Leipzig, TEUBNER, 1929. ISIS

Reviewed by K. PREISENDANZ, *DLZ*, 2080-82, 1931.

Cunliffe, Richard John. Homeric proper and place names. A supplement to " A lexicon of the Homeric dialect." VI + 42 p. London, BLACKIE, 1931. ISIS

Doerpfeld, Wilhelm. Alt-Ithaka. Ein Beitrag zur HOMERfrage. Studien und Ausgrabungen auf der Insel Leukas-Ithaka. Unter Mitarbeit von PETER GOESSLER, ERNST VAN HILLE, WILFRIED VON SEIDLITZ, und RICHARD UHDE. 2 vol. 442 p., 33 fig., 89 gravures, 20 pl. Munich, UHDE, 1927. ISIS

Reviewed by E. POTTIER, *Revue Archéologique*, 27, 364-67, 1928.

Farrington, Benjamin. SAMUEL BUTLER and the Odyssey. 94 p., maps. London, CAPE, 1929. ISIS

Woodhouse, William John. The composition of HOMER's Odyssey. 251 p. Oxford, Clarendon Press, 1930. ISIS

Vth Century B.C.

Cochrane, Charles Norris. THUCYDIDES and the science of history. VI + 180 p. Oxford, University Press, 1929. ISIS

Reviewed by W. S. FERGUSON, *American Historical Review*, 35, 584-85, 1930; by F. JACOBY, *DLZ*, 2, 14-16, 1931.

Gutmann, Margit. Die Nebensätze in ausgewählten Schriften des hippokratischen Corpus und ihre Bedeutung für die Verfasserfrage. 121 p. (Inaugural-Dissertation.) MÜNCHEN, 1929. ISIS

Reviewed by LUDWIG ENGLERT, *DLZ*, 1, 1072-74, 1930.

Mo Ti. The ethical and political works of MOTSE. Translated from

the original Chinese text by YI-PAO MEI. XIV + 275 p. London, PROBSTHAIN, 1929. ISIS

Muschel, Jesaja. Die pseudohippokratische Todesprognostik und die *Capsula eburnea* in hebräischer Überlieferung. *Sudhoffs Archiv für Geschichte der Medizin*, 25, 43-60, 1932. ISIS

Osborn, Edward Bolland. SOCRATES and his friends. 254 p. London, HODDER and STOUGHTON, 1930. ISIS

Schadewaldt, Wolfgang. Die Geschichtschreibung des THUKYDIDES. Ein Versuch. VI + 100 p. Berlin, WEIDMANN, 1929. ISIS

Reviewed by FRANZ DORNSEIFF, *DLZ*, 1, 543-48, 1930.

Senn, G. Nochmals die Experimente im Corpus Hippocraticum. *Verh. naturforsch. Ges.*, Basel, 41, 109-28, 1931. ISIS

Täubler, Eugen. Die Archaeologie des THUKYDIDES. 132 p. Leipzig, TEUBNER, 1927. ISIS

Reviewed by MAURICE CROISET, *Journal des Savants*, 243-45, 1928; by KONRAT ZIEGLER, *DLZ*, 1, 123-29, 1930.

IVth Century B.C. (whole and first half)

Herzog, Rudolf. Die Wunderheilungen von Epidauros. Ein Beitrag zur Geschichte der Medizin und der Religion. 164 p., 1 pl. (*Philologus* Supplementband, H. 3.) Leipzig, DIETERICH, 1931. ISIS

Reviewed by HABERLING, *Mitteilungen zur Geschichte der Medizin und der Naturwissenschaften*, 30, 267, 1931.

Jacks, Leo Vincent. XENOPHON, soldier of fortune. XI + 236 p. London, SCRIBNERS, 1930. ISIS

Kung-Sung, Yang (d. 338 B.C.). The book of Lord SHANG. A classic of the Chinese school of law. Translated from the Chinese with introduction and notes by J. J. L. DUYVENDAK. XIV + 346 p. (Probsthain's Oriental Series, vol. 17). London, PROBSTHAIN, 1928. ISIS

Reviewed by A. FORKE, *DLZ*, 50, 1763-64, 1929.

Lodge, Rupert Clendon. PLATO'S theory of ethics. The moral criterion and the highest good. XIV + 538 p. New York, HARCOURT, BRACE, 1928. ISIS

Plato. Timaeus and Critias. Translated into English with introductions and notes on the text by A. E. TAYLOR. VII + 136 p. London, METHUEN, 1929. ISIS

Singer Kurt. PLATON, der Gründer. 264 p. München, BECK, 1927. ISIS

Reviewed by J. STENZEL, *DLZ*, 1, 737-42, 1930.

Sköld, Hannes. Papers on PÂṆINI and Indian grammar in general. 53 p. (*Lunds Universitets Årsskrift*, Bd. 21). Lund, GLEERUP, 1926. ISIS

Reviewed by PAUL THIEME, *OLZ*, 33, 549-51, 1930.

IVth Century B.C. (second half)

(Aristotle). The works of ARISTOTLE. Translated into English under the editorship of W. D. ROSS. Vol. 1 : *Categoriae* and *De interpretatione*, by E. M. EDGHILL ; *Analytica priora*, by A. J. JENKINSON ; *Analytica posteriora*, by G. R. G. MURE ; *Topica* and *De sophisticis elenchis*, by W. A. PICKARD-Cambridge. IV + 652 p. Oxford, University Press, 1926. ISIS

(Aristotle). The works of ARISTOTLE translated into English. Completing volume 2, *Physica*, by W. D. ROSS and R. P. HARDIE. Oxford, University Press, 1930. ISIS

Dubs, Homer Hasenplug. The works of HSÜNTZE. Translated from the Chinese with notes. 336 p. (Probsthain's Oriental Series, 16). London, PROBSTHAIN, 1928. ISIS

Reviewed by ERICH SCHMITT, *OLZ*, 33, 1049-53, 1930.

Ross, W. D. ; Fobes, F. H. THEOPHRASTUS' Metaphysics. With translation, commentary, and introduction. XXXII + 87 p. Oxford, Clarendon Press, 1930. ISIS

Schilling-Wollny, Kurt. ARITSTOTELES' Gedanke der Philosophie. 133 p. München, REINHARDT, 1928. ISIS

Reviewed by WILLY THEILER, *DLZ*, 50, 2479-83, 1929.

Solmsen, Friedrich. Die Entwicklung der Aristotelischen Logik und Rhetorik. IV + 304 p. (*Neue philol. Untersuchg.* Hrsg. von WERNER JAEGER. H. 4.) Berlin, WEIDMANN, 1929. ISIS

Reviewed by JOHN L. STOCKS, *DLZ*, 1, 1259-63, 1930.

Walzer, Richard. Magna moralia und aristotelische Ethik. IX +

300 p. (*Neue philolog. Untersuchgn.* Hrsg. v. WERNER JAEGER. H. 7). Berlin, WEIDMANN, 1929. ISIS

Reviewed by K. v. FRITZ, *DLZ*, 1, 1791-96, 1930; by H. MARGUERITTE, *R. d'hist. de la philosophie*, 3, 405-08, 1930.

Ist Century (whole and first half)

Klausner, Joseph. JESUS von Nazareth. Seine Zeit, sein Leben und seine Lehre. Autorisierte Übersetzung aus dem Hebräischen von WALTER FISCHEL. 592 p. Berlin, Jüdischer Verl., 1930. ISIS

Reviewed by GERHARD KITTEL, *DLZ*, 2, 2067-68, 1931.

Papyri in the Princeton University Collections. Edited with notes by ALLAN CHESTER JOHNSON and by HENRY BARTLETT VAN HOESEN. XXIII + 146 p. (*The Johns Hopkins University Studies in Archaeology*, no. 10, edited by DAVID M. ROBINSON). Baltimore, Johns Hopkins Press, 1931. ISIS

"The fourteen papyri here published consist of tax-documents of the village Philadelphia in the time of TIBERIUS." Reviewed by J. G. WINTER, *American Historical Review*, 37, 91-92, 1931.

Ist Century (second half)

Bailey, Kenneth C. The "Lapides palmati" mentioned in the "Historia naturalis" of the ELDER PLINY. *Nature*, 128, 672, 2 fig., 1931. ISIS

Herrmann, Léon. Réflexions sur la comète de CALPURNIUS. *Revue belge de philologie et d'histoire*, 10, 145-53, 1931. ISIS

Swann, Nancy Lee. PAN CHAO, the foremost woman scholar of China (First century, A.D.). New York, Century, 1931. ISIS

IInd Century (whole and first half)

Swann, Nancy Lee. Biography of the Empress TÊNG. A translation from the Annals of the later Han Dynasty. *Journal of American Oriental Society*, 51, 138-59, 1931. [McGill University Publications, series 21 (Chinese Studies), no. 1]. ISIS

IInd Century (second half)

Galen. Über die medizinischen Namen, Arabisch und Deutsch hrsg. von MAX MEYERHOF und JOSEPH SCHACHT. 62 p. (*Abhandlungen*

der Preussischen Akademie der Wissenschaften, phil.-hist. Klasse, Nr. 3, 1931.) Berlin, DE GRUYTER, 1931. (Rm. 16.) ISIS

The *Περὶ τῶν ἰατρικῶν ὀνομάτων* is one of the most important of the 45 authentic Galenic writings which are lost in Greek but were known in Arabic in the ninth century. ḤUNAIN IBN ISḤĀQ translated three parts of it (out of five) from Greek into Syriac, and his nephew ḤUBAISH IBN AL-ḤASAN translated the first of these from Syriac into Arabic (see MEYERHOF in *Isis*, 8, 708-09, 1926). That Arabic text represented by a single MS. (Leiden Or. 585) is here edited and translated into German. Introduction by SCHACHT and DEICHGRÄBER; indices by MEYERHOF. I am glad to announce that two other Galenic texts, the Arabic versions of which have been recently discovered by RITTER in a Stambul MS.—the *Περὶ τῆς ἰατρικῆς ἐμπειρίας* and the *Περὶ τῶν συνεκτικῶν αἰτίων*—will soon be edited and translated by Dr. WALZER. G. S.

Dove, C. Clayton. MARCUS AURELIUS ANTONINUS : his life and times. 276 p. London, WATTS, 1930. ISIS

Reviewed by RENÉ CAGNAT, *Journal des Savants*, 426, 1931.

Orlando-Salinas, F. Un giuramento medico in esametri greci. *Rivista di Storia delle Scienze Mediche e Naturali*, 22, 371-74, 1931. ISIS

IIIrd Century (whole and first half)

Rome, A. Sur la date d'ARTÉMIDORE. *Annales de la société scientifique de Bruxelles*, 51, 104-12, 1931. ISIS

ARTÉMIDORE, commentateur de PTOLÉMÉE, vivait au commencement du IIIe siècle après J. C. J. P.

IIIrd Century (second half)

Cavazzoni, Luigi. Intorno ad alcuni problemi di DIOFANTO. *Period. Mat.*, 11, 84-109, 1931. ISIS

Junge, Gustav; Thomson, William. The commentary of PAPPUS on book X of EUCLID's Elements. Arabic text and translation by WILLIAM THOMSON with introductory remarks, notes, and a glossary of technical terms by GUSTAV JUNGE and WILLIAM THOMSON. 292 p. (*Harvard Semitic* Series, vol. 8.) Cambridge, Harvard University Press, 1930. ISIS

Reviewed by SOLOMON GANDZ, *Isis*, 16, 132-36, 1931.

Vth Century (whole and first half)

Augustine, St. A monument to ST. AUGUSTINE. Essays on some

aspects of his thought. Written in commemoration of his fifteenth centenary. By M. C. D'ARCY (S. J.), MAURICE BLONDEL, CHRISTOPHER DAWSON, ETIENNE GILSON, JACQUES MARITAIN, C. C. MARTINDALE (S. J.), ERICH PRZYWARA (S. J.), JOHN BAPTIST REEVES, B. ROLAND-GOSSELIN, and E. I. WATKIN. 367 p. London, SHEED and WARD, 1930. ISIS

Boethius. De consolatione philosophiae. Translated by JOHN WALTON. Edited, with introduction, notes and glossary by MARK SCIENCE. LXVII + 379 p. (Published for the Early English Text Society). London, MILFORD, 1927. ISIS

Franchet, L. Une colonie Scytho-alaine en Orléanais au Ve siècle. *Rev. sci.*, 68, 70-82, 109-17, Paris, 1930. ISIS

Goossens, Roger. L'ὀδοντοτύραννος, animal de l'Inde. *Byzantion*, 4, 29-52, 1929. ISIS

Apropos of a treatise ascribed to PALLADIOS, bishop of Helenopolis (d. 417/18), author of the Lausiac history.

Milne, Christian Hoyer Millar. A reconstruction of the old-Latin text or texts of the Gospels used by SAINT AUGUSTINE, with a study of their character. XXVIII + 177 p. Cambridge, University Press, 1926. ISIS

Reviewed by CH. GUIGNEBERT, *Revue de l'histoire des religions*, 99, 107, 1929.

Nau, F. Sur la synagogue de Rabbat Moab (422), et un mouvement sioniste favorisé par l'impératrice EUDOCIE (438), d'après la vie de BARSAUMA LE SYRIEN. *Journal asiatique*, 210, 189-91, 1927. ISIS

Papini, Giovanni. SAINT AUGUSTINE. Translated by MARY PRICHARD AGNETTI. 327 p. London, HODDER and STOUGHTON, 1930. ISIS

Vth Century (second half)

Lot, Ferdinand. Bretons et Anglais aux Ve et VIe siècles. 20 p. (The Sir John Rhys Memorial Lecture, British Academy, 1930. From the *Proceedings of the British Academy*, XVI.) Oxford, University Press, 1930. ISIS

Schissel von Fleschenberg, Otmar. MARINOS VON NEAPOLIS und die neuplatonischen Tugendgrade. Texte und Forschungen zur byzantinisch-neugriechischen Philologie. VII + 122 p. ATHEN, 1928. ISIS

Reviewed by PAUL GRAINDOR, *Byzantion*, 4, 671-72, 1929; by E. BRÉHIER, *R. d'hist. de la philosophie*, 3, 226-27, 1929.

VIth Century (whole and first half)

Avalon, Jean. SAINTE GERTRUDE DE NIVELLES, invoquée contre les souris et contre la maladie. *Aesculape*, 21, 169-75, 7 fig., 1931.
ISIS

Meyerhof, Max. JOANNES GRAMMATIKOS (PHILOPONOS) von Alexandrien und die arabische Medizin. *Mitteilungen des deutschen Instituts für ägyptische Altertumskunde* in Kairo, 2, 21 p., 13 pl., 3 figs., 1 map, Augsburg, 1931. ISIS

Admirable mise au point summarizing the results of recent investigations by W. REICHARDT, GUDEMAN, KROLL, JEAN MASPÉRO, FURLANI, and the author, proving that JOHN PHILOPONOS and JOHN THE GRAMMARIAN, dealt with in my *Introduction* (1, 421, 480) represent but a single personality who flourished in the first half of the sixth century. The same erroneous distinction had been made in PAULY-WISSOWA and by the late E. G. BROWNE and can be traced back to early Syrian and Arabic sources. MEYERHOF's study is so important that his conclusions are here quoted verbatim in spite of their length.

" 1. Überall, wo in der arabischen Literatur ein JOANNES VON ALEXANDRIEN vorkommt, dem Kommentare zu ARISTOTELES und GALEN zugeschrieben werden, handelt es sich um JOANNES GRAMMATIKOS (PHILOPONOS). Dass der bei DIELS als Verfasser von Hippokrates-Scholien genannte JOANNES ALEXANDRINUS ein anderer ist, muss erst noch nachgewiesen werden. 2. Die Verlegung der Lebenszeit des JG in das siebente nachchristliche Jahrhundert, in die Zeit der arabischen Eroberung Ägyptens, ist durch einen Abschreibfehler (Datierungsirrtum) in den griechischen Hss. des Physikkommentars des JG veranlasst worden. Dieser Irrtum ist in die syrischen und arabischen Übersetzungen der Schrift übergegangen, und wahrscheinlich zuerst von dem muslimischen Bibliographen IBN AN-NADĪM im *Fihrist* (987 n. Chr.) zur Erfindung der Legende von der Begegnung des JG mit dem arabischen Feldherrn 'AMR verwertet worden. 3. Die Ausschmückung dieser Legende und die Verknüpfung des Brandes der Bibliothek von Alexandrien mit dem Namen des JG ist die Weiterführung des vorstehend gekennzeichneten geschichtlichen Irrtums des IBN AN-NADĪM durch IBN AL-QIFṬĪ († 1248) (FURLANI). 4. Die Syrer haben die ganzen ARISTOTELES-kommentare und die theologischen Schriften des JG in das Syrische übersetzt und ihre Kenntnis den Arabern übermittelt. Dadurch wurde JG eine Autorität in der syrisch-jakobitischen Schultheologie, aber auch eine Stütze der arabisch-islamischen (AL-GHAZĀLĪ) und jüdisch-arabischen (MAIMONIDES) Gotteslehre. 5. Die von den Arabern dem JG zugeschriebenen Schriften über Medizin gliedern sich in vier Gruppen : (a) Die Teilnahme des JG an der Redaktion der Lehrsammlung der ' Sechzehn Bücher ' des GALEN (galenischer Kanon der Heilkunde). Diese Teilnahme wird von IBN ABĪ UṢAIBI'A (13. Jahrhundert) behauptet, von dem besser informierten 'UBAIDALLĀH B. JIBRĀ'ĪL (11. Jahrhundert) aber ausdrücklich bestritten. (b) Späthellenistische Abkürzungen

jener 'Sechzehn Bücher' mit Kommentaren, die stets unter dem Namen des JG gehen und nur arabisch und hebräisch erhalten sind. IBN AN-NADĪM erwähnt sie, ohne sie aufzuführen, IBN AL-QIFṬĪ lässt sie fort, und nur IBN ABĪ UṢAIBI'A zählt sie genau auf. Aus den Originalen ist nichts zu erkennen, was für die Verfasserschaft des JG spräche. Der Autor ist vermutlich unter den Ärzten von Alexandrien im fünften bis sechsten nachchristlichen Jahrhundert zu suchen (PALLADIOS, GESSIOS, SERGIOS u.a.). (c) Eine Geschichte der griechischen Ärzte, die von ISḤĀQ B. ḤUNAIN (903 unserer Zeitrechnung) ausgezogen worden, aber nur in kleinen Bruchstücken erhalten ist. Sie ist ein phantastisches, mit magischen Zahlenrechnungen durchsetztes Machwerk, das einem bedeutenden Gelehrten wie JG nicht zugeschrieben werden darf. (d) Ein arabisch erhaltener Theriakkommentar, angeblich zum ersten Buche von GALENS Schrift *De antidotis*. Auch diese Schrift ist ein mystisch-magisches Erzeugnis vermutlich der alexandrinischen pseudonaturwissenschaftlichen Spätliteratur, und keinesfalls von JG verfasst. 6. Somit ist die gesamte von den Arabern dem JOANNES GRAMMATIKOS oder PHILOPONOS zugeschriebene medizinische Schriftstellerei als apokryph zu betrachten. Sie sollte aus den Geschichtswerken verschwinden, zusammen mit der Legende von den Beziehungen des alexandrinischen Gelehrten zu den arabischen Eroberern Ägyptens."

The apocryphal nature of the medical writings ascribed to JOHN has been confirmed recently by an investigation made by Dr. O. TEMKIN of Leipzig, the results of which will soon be published, I hope.

The final chapter of MEYERHOF's memoir deals with one of JOHN's pseudepigraphical treatises on the theriaca (Ma'jūn al-diryāq) represented by a Cairene MS. (National library, no. 166 ṭibb) of which some very interesting schemata are reproduced (3 pls.). G. S.

Thomsen, Peter. Das Stadtbild Jerusalems auf der Mosaikkarte von Madeba. *Zeitschrift des Deutschen Palästina-Vereins*, 52, 149-74, 192-219, 290-310, 1929. ISIS

Reviewed by J. W. CROWFOOT, *Antiquity*, 5, 140-41, 1931.

VIIth Century (whole and first half)

Ali, Muhammad. Translation of the Holy Quran (without Arabic text). With short notes and introduction. CXVI + 631 p. Lahore, Ahmadiyya Anjuman-i-Ishaat-i-Islam, 1928. ISIS

Reviewed by JOSEF HOROVITZ, *OLZ*, 33, 777-80, 1930.

Bacot, Jacques. Les Ślokas grammaticaux de THONMI SAMBHOTA avec leurs commentaires. Traduits du Tibétain et annotés. Une grammaire tibétaine du Tibétain classique. IV + 231 p., 7 pl. (*Annales du Musée Guimet*; Bibliothèque d'Etudes, Tome 37). Paris, GEUTHNER, 1928. ISIS

Reviewed by JOHANNES SCHUBERT, *OLZ*, 33, 299-304, 1930.

Buhl, Frants. Das Leben MUHAMMEDS. Deutsch von HANS HEINRICH SCHAEDER. VIII + 379 p. Leipzig, QUELLE & MEYER, 1930. ISIS

Reviewed by R. HARTMANN, *DLZ*, 1, 1208-11, 1930; by JOSEF HOROVITZ, *OLZ*, 34, 146-49, 1931.

Dermenghem, Emile. La vie de MAHOMET. 382 p. Paris, PLON, 1929. ISIS

Reviewed in *Revue des études islamiques*, 125-26, 1929.

Dermenghem, Emile. The life of MAHOMET. Translated by ARABELLA YORKE. XII + 353 p. New York, Dial Press, 1930. ISIS

Reviewed by D. B. MACDONALD, *American Historical Review*, 36, 421, 1931.

√**John the Grammarian** (*Introduction*, 1, 480). That note should be cancelled, amalgamated with the note on JOHN PHILOPONOS (on p. 421), and entirely rewritten. These two JOHNS are really but one person, JOHN GRAMMATICOS, pupil of AMMONIOS, who lived probably from c. 485 to c. 555. The false distinction, due to a MS. error, was propagated by Syrian translators and Arabic commentators. See note on MAX MEYERHOF's admirable study (Augsburg, 1931), the conclusions of which are reproduced in *Isis*, 18, 447-48.

G. S. ISIS

Vera, Francisco. SAN ISIDORO, matemático. *Erudición ibero-ultramarina*, 2, 1-22, Madrid, 1931. ISIS

Edition with notes of the mathematical chapters of the unique Castilian translation of the *Etimologiae*, after an Escorial MS. of the end of the fourteenth or the beginning of the fifteenth century. G. S.

VIIth Century (second half)

el-Hawary, Hassan Mohammed. The most ancient Islamic monument known dated A. H. 31 (A.D. 652). From the time of the third calif 'UTHMAN. *Journal of the Royal Asiatic Society*, 321-53, 3 pl., 1930. ISIS

IXth Cenrtuy (whole and first half)

Meyerhof, Max. 'ALĪ IBN RABBAN AṬ-ṬABARĪ, ein persischer Arzt des 9. Jahrhunderts n. Chr. *Zeitschrift der Deutschen Morgenländischen Gesellschaft*, 10, 38-68, 1931. ISIS

Elaborate study of the great Persian physician whose main medical work, the Paradise of wisdom, was very carefully analysed in *Isis*, by the same author (vol. 16, 6-54, 1931). This new study is divided as follows : Introduction, Historical background, Biography, 'ALĪ's writings (14 items), Notes on the

Paradise of wisdom. The publication of the Paradise of wisdom (Berlin, 1928) and of MEYERHOF's two studies would make it necessary to rewrite entirely my own note on that author (*Introduction*, 1, 574), which is now inadequate. G. S.

Meyerhof, Max. 'ALI AṬ-ṬABARĪ's "Paradise of wisdom," one of the oldest compendiums of medicine. *Isis*, 16, 6-54, 1931. ISIS

Morin, Dom **Germain.** GOTTSHALK retrouvé. *Revue Bénédictine*, 303-12, 1931. ISIS

Dom GERMAIN MORIN found in March 1931 that the Berne MS. 584 (fonds Bongars), listed as a "Tractatus de Trina Deitate" plus some kind of homilies, is actually a 283 p. manuscript of GOTTSCHALK himself. This is a great find, as the irrepressible Saxon monk tells us here his plain mind about friend and foe. Dom GERMAIN sketches the main contents and states that Dom LAMBOT of Maredsous Abbey is undertaking the editio princeps of the work of this great thinker. H. G. B.

IXth Century (second half)

al-Rāzī (*Introduction*, I, 609). AL-RĀZĪ was born in 865 and died on Oct. 26, 925. JULIUS RUSKA: AL-BĪRŪNĪ als Quelle für das Leben und die Schriften AL-RĀZĪ's (*Isis*, 5, 26-50, 1924). ISIS

South, Helen Pennock. The proverbs of ALFRED: studied in the light of the recently discovered Maidstone Manuscript. VIII + 168 p. New York, University Press, 1931. ISIS

Xth Century (whole and first half)

Hamburg und Island 930-1930. Festgabe der Hamburger Staats- und Universitäts-Bibliothek zur Jahrtausendfeier des Isländischen Allthings. 59 p., 4 fig. Hamburg, Selbstverl. d. Staats- u. Univ.-Bibliothek, 1930. ISIS

Reviewed by GUSTAV NECKEL, *DLZ*, 1, 2441-42, 1930.

Xth Century (second half)

(Hrotsvitha). HROTSVITHAE opera denuo edidit, codicis Coloniensis lectionem primum adjecit K. STRECKER. XII + 278 p. Leipzig, TEUBNER, 1930. ISIS

In 1922, G. FRENKEN discovered in the Stadtarchiv of Cologne a new text of four plays of the nun of Gandersheim: Gallicanus, Dulcitius, Calimachus, and Abraham (cod. W 101; 12th cent.). Till now the sole known MS. of HROTSVITHA's work was CLM 14,485. The new texts have some variants that are certainly correct and are important for establishing metre

and rhyme. The new MS is further notable in so far as the *praefatio*, the *epistula ad quosdam*, and the arguments are lacking. H. G. B.

(Liudprand). The works of LIUDPRAND OF CREMONA. *Antapodosis, Liber de rebus gestis Ottonis, relatio de legatione Constantinopolitana.* Translated for the first time into English with an introduction by F. A. WRIGHT. v + 287 p. (Broadway Medieval Library). London, ROUTLEDGE, 1929. ISIS

Mayer, Anton. Der Heilige und die Dirne. Eine motivgeschichtl. Studie zu HROTSVITAS Abraham und Pafnutius. *Bayerische Blätter für das Gymnasial-Schulwesen*, 67, 73-96, 1931. H. G. B. ISIS

XIth Century (whole and first half)

Asin Palacios, Miguel. ABENHÁZAM de Córdoba y su historia crítica de las ideas religiosas. Tomo cuarto. 269 p. Madrid, Tip. de la " Rev. de Archivos, Bibliotecas y Museos," 1931. ISIS

The previous volumes of this impressive study and translation of IBN ḤAZM's works appeared in 1927 (*Isis*, 11, 168), 1928 (*Isis*, 13, 155), and 1929 (*Isis*, 14, 473). The present volume contains the translation of the chapters 21 to 24 of the second treatise of the Fiṣal (i.e., the end of *De praedestinatione, gratia et libero arbitrio*, to use scholastic terminology), and the chapters 1 to 16 of the third treatise (i.e., *De fide*, and the beginning of *De futura hominis vita*). A. P.

Creutz, Rudolf. Erzbischof ALFANUS I, ein frühsalernitanischer Arzt. *Stud. u. Mitt. z. Gesch. d. Benediktinerordens*, 47, 413-32, 1929. ISIS

Author of the physiological tracts *De quattuor humoribus* and *Premnon physicon*. C. D. L.

Drecker, J. HERMANNUS CONTRACTUS Über das Astrolab. *Isis*, 16, 200-19, 4 fig., 1931. ISIS

Reynolds, J. H. The Hakemite Tables of EBN JOUNIS. *Nature*, 128, 913-14, 1931. ISIS

Review of CAUSSIN's edition of 1804 (*Introduction*, 1, 717). G. S.

Welborn, Mary Catherine. Lotharingia as a center of Arabic and scientific influence in the eleventh century. *Isis*, 16, 188-99, 1 map, 1931. ISIS

XIth Century (second half)

Assassins (*Introduction*, I, 752). " Their name is the result of a play

upon words." This is wrongly expressed. The mediaeval Latin word *assassinus* (hence assassin in French and English) was derived from the Arabic ḥashshâshîn (acc. pl. of ḥashshâsh, a smoker of ḥashîsh), one of the names given to the members of that sect. As the fanatics among them resorted frequently to assassination, their name " assassinus " assumed its modern meaning. In other words they were not named assassins because of their murderous activities, but on the contrary, assassins were named after them. G. S.

ISIS

copy true here

This quite obviously disproves the tentative theories of DuCange (Gloss. I, " Assasini ") that the word comes from Arabic words " to kill." M. C. W.

Creutz, Rudolf. Der Cassinese Johannes Afflacius Saracenus, ein Arzt aus " Hochsalerno." *Stud. u. Mitt. z. Gesch. d. Benediktinerordens*, 48, 302-24, 1930. ISIS

Creutz, Rudolf. Die Ehrenrettung Konstantins von Afrika. *Stud. u. Mitt. z. Gesch. d. Benediktinerordens*, 49, 25-44, 1931. ISIS

Reviewed by Haberling, *Mitteilungen zur Geschichte der Medizin und der Naturwissenschaften*, 30, 269, 1931.

Stur, Johann. Zur Geschichte der Zeugungsprobleme. *Sudhoffs Archiv für Geschichte der Medizin*, 24, 312-28, 1931. ISIS

Apropos of Michael Psellos.

XIIth Century (whole and first half)

Balzli, Hans. Vocabularien im Codex Salernitanus der Breslauer Stadtbibliothek (Nr. 1302) und in einer Münchener Handschrift (Lat. 4622), beide aus dem XII. Jahrhundert. VI + 64 p. (*Stud. Gesch. Med.* H. 21.) Leipzig, Barth, 1931. ISIS

Reviewed by Haberling, *Mitteilungen zur Geschichte der Medizin und der Naturwissenschaften*, 30, 269, 1931.

Markham, Violet Rosa. Romanesque France. Studies in the archaeology and history of the twelfth century. XVIII + 521 p., 34 pl. London, Murray, 1929. ISIS

Reviewed by K. J. Conant, *Speculum*, 155, 1931.

Wagner, Félix. Les poèmes héroïques de l'Edda et la Saga des Völsungs. Traduction française d'après le texte original islandais, précédée d'une étude sur les poèmes scandinaves dans leurs rapports avec la Saga en prose et l'épopée des Nibelungen et accompagnée de notices explicatives. 276 p. Paris, Leroux, 1929. ISIS

Reviewed by P. R., *Revue de l'histoire des religions*, 99, 326, 1929.

XIIth Century (second half)

Averroès. (Ibn Rushd). La Bidaya : Manuel de l'interprète des lois et traité complet du juriste, II, des donations, des testaments, des successions, des jugements. Traduit par AHMED LAÏMÈCHE. 124 p. Alger, 1928. ISIS

Brown, Paul Alonzo. The development of the legend of THOMAS BECKET. Doctor's thesis, University of Pennsylvania. 302 p. Philadelphia, University of Pennsylvania. 1930. ISIS

Cravener, Edward K. An orthopedic clinic of 1174 A.D. *Annals of Medical History*, 3, 595-98, 1931. ISIS

A propos of St. Bartholomew's London, from a 15th century English translation of a 12th century script, Brit. Mus., Vespasian B IX.

C. D. L.

Hettemer, Margarete. Gesichte und Erkrankung der HILDEGARD VON BINGEN. *Hippocrates*, 125-49, 1930. ISIS

(Hildegard von Bingen). Der heiligen HILDEGARD VON BINGEN Wisse die Wege. Scivias. Nach dem Urtext des Wiesbadener kleinen Hildegardiskodex ins Deutsche übertragen und bearbeitet von MAURA BÖCKELER. Mit einem Geleitswort von ILDEFONS HERWEGEN. XXIV + 507 p., 35 pl. Berlin, Augustinus-Verlag, 1928. ISIS

Morena, Otto. Sein Geschichtswerk und das seiner Fortsetzer über die Taten FRIEDRICHS I. in der Lombardei. Neu hrsg. v. FERDINAND GÜTERBOCK. XLV + 245 p. (*Monumenta Germaniae Historica*. Neue Serie, Bd. 7). Berlin, WEIDMANN, 1930. ISIS

Reviewed by R. HOLTZMANN, *DLZ*, 1, 1929-51, 1930.

Preisendanz, Karl; Homburger, Otto. Das Evangelistar des Speyerer Domes. Bilderhandschrift des XII. Jahrhunderts in der Badischen Landesbibliothek Karlsruhe. Einführung von KARL PREISENDANZ und OTTO HOMBURGER. LVI + 63 p., 40 pl. Leipzig, HIERSEMANN, 1930. ISIS

Reviewed by ALBERT BOECKLER, *DLZ*, 1, 1327-32, 1930.

Rosebault, Charles J. SALADIN, prince of chivalry. XIII + 306 p. London, CASSELL, 1930. ISIS

XIIIth Century (whole and first half)

Asín Palacios, Miguel. El Islam cristianizado : estudio del " sufismo "

a través de las obras de ABENARABI de Murcia. Dibujos de CARLOS DE MIGUEL. 544 p. Madrid, Plutarco, 1931. ISIS

Reviewed by D. B. MACDONALD, *American Historical Review*, 37, 96-97, 1931.

Bortolotti, Ettore. Le fonti arabe di LEONARDO PISANO. *Memorie della R. Accademia delle Scienze dell' Istituto di Bologna*, 7, 91-101, 1930. ISIS

Bortolotti, Ettore. Intorno al Liber Abbaci di LEONARDO PISANO ed all' uso delle frazioni continue nel calcolo approssimato di π. *Periodico di Matematiche*, 11, 211-17, 1931. ISIS

Busse-Wilson, Elisabeth. Das Leben der Heiligen ELISABETH VON THÜRINGEN. Das Abbild einer mittelalterlichen Seele. VI + 339 p. München, BECK, 1931. ISIS

Reviewed by HABERLING, *Mitteilungen zur Geschichte der Medizin und der Naturwissenschaften*, 30, 278, 1931.

Pflaum, Heinz. Sortes, Plato, Cicero. Satirisches Gedicht des dreizehnten Jahrhunderts. *Speculum*, 6, 499-533, 1931. ISIS

XIIIth Century (second half)

Sprengling, Martin; Graham, William Creighton. BARHEBRAEUS' Scholia on the Old Testament. Part I: Genesis — II Samuel. XVI + 393 p., facsim. (The University of Chicago, Oriental Institute Publications, volume XIII.) Chicago, University Press, 1931. ISIS

"In the Middle Ages the Holy Book, the eternal revelation of divine salvation, occupied in every respect the center of the stage and had the spotlight shining full upon it. Around it men great and small wove all they knew of science, art, culture, and life. More than one man put his all into comments on the Bible. BARHEBRAEUS, indeed, wrote far more than this one book. There is scarcely a branch of the science and literature of his day to which he did not make some noteworthy contribution."

"Our choice of the great Florentine manuscript was made for two reasons. First, it is undoubtedly the oldest known text. It was written in BARHEBRAEUS' own lifetime, not more than six years after the completion of the work by BARHEBRAEUS himself. This should be placed with our oldest two manuscripts in 1272-3, and not with GÖTTSBERGER in 1278, though the latter date is, indeed, that of the Florentine manuscript, which was written by JOHN OF ARW, a disciple of BARHEBRAEUS. Second, this manuscript furnishes us with the neatest, most presentable complete text. Its text is probably also the oldest; in its original form it lacks the touches of a revision which BARHEBRAEUS himself may have made in connection with the writing of his larger grammar, probably about 1284-5. For this revision the manuscripts" Berlin Sachau 326 and Brit. Mus. Or. 7186, "together with the modifications introduced

in text and margin of the Florentine manuscript itself, furnish the best evidence. Our collation and notes must serve for the present to substantiate this statement."

"In the meantime, despite GÖTTSBERGER's warning, we present our idea of the text and its meaning in a complete English translation. We do this because we believe that the interest and usefulness of this great work are wider than even GÖTTSBERGER saw. As GÖTTSBERGER expanded NÖLDEKE's statement, which assumed that this book would interest only the philologian and the critic of the biblical text, to include the theologian and the historian, the exegete and the philosopher, so we would include further, as men who will find grist for their mill in the great comprehensive work of this wide-awake humanist of the thirteenth century, our anthropologists and sociologists. An article by Mr. SPRENGLING on 'Scapulomancy and the Mongols,' accepted for publication by the *American Anthropologist*, will bring our great scholar to the attention of anthropologists, who are sorely in need of just such information as he furnished in the most surprising manner and places. And the *Storehouse of Mysteries* is hereby recommended as valuable source material to such modern sociologists as are as wide awake as its author."

The facsimile of the Florentine MS. (Medicean Lib. 230) and the notes on the translation appear on the left pages numbered 2 to 354; the English translation, and the collation with nineteen other MSS. occupy the right pages 1 to 357, and some of the left pages. Syriac marginal notes consisting chiefly of explanatory or additional material derived from the commentaries of BAR ṢALĪBĪ are appended (p. 359-78). The index of incidental biblical references, and the index of almost 2000 proper names are due to Dr. ALLEN and his assistants.

XIVth Century (whole and first half)

Froehner, Reinhard. ZACHAREIS der Rossarcz. *Vet.-hist. Mitt.*, 11, 19, 1931. ISIS

Guerra, G. del. La morte di ARRIGO VII : Veleno o malaria ? Appunti medici sulle cronache e sulle leggende dei tempi. *Rivista di storia delle Scienze Mediche e Naturali*, 22, 245-56, 1931; 23, 24-27, 1932. ISIS

McCroben, G. DANTE in the Casentino. 70 p. Florence, GIANNINI, 1931. ISIS

Rieck, Wilhelm. Zur deutschen Pferdeheilkunde im 14. Jahrhundert. *Vet.-histor. Mitt.*, 11, 6-8, 1931. ISIS

Thorndike, Lynn. Translation of a letter from a physician of Valencia to his two sons studying at Toulouse 1315 A.D. *Ann. Med. Hist.*, 3, 17-20, 1931. ISIS

A regimen, by PETER FAGAROLA. Latin text in Ms. Sloane 3124, fols. 74r-77r, British Museum. C. D. L.

Vera, Francisco. Tratado de astrología del Marqués de VILLENA. 54 p., 1 fig. *Erudición ibero-ultramarina*, 1, 18-67. Madrid, Velasco, 1930. ISIS

Elaborate description and analysis, chapter by chapter, of an astrological MS. of the fifteenth century kept in the Biblioteca Nacional of Spain. The author concludes : " Es un libro perfectamente sistematizado que responde — como los de D. ALFONSO X, pero sin el zarpazo genial de éste — al movimiento que, iniciado en el siglo XIII con el nombre de *Ciencia de la Esfera*, se transformó en la *Cosmografía* del XVI. La ciencia importada en Europa por los árabes y recogida especialmente en la *Sphera mundi* de SACROBOSCO, produjo una verdadera revolución intelectual cuyos resplandores se reflejan en este tratado de Astrología; pero con lamentable retraso en algunos puntos, pues que su fuente principal de informacíon es el *Libro del Tesoro*, anterior en dos siglos a VILLENA, y sus autores predilectos el teólogo ALANO, tambíen del siglo XIII, para la parte cosmológica y los árabes para la astronómica, si bien se aparta un poco del practicismo de éstos para acercarse más a la especulación de tipo alfonsino."

" De las dos partes en que puede dividirse el tratado de Astrología atribuído a VILLENA, la primera — cosmológica —, pertenece al siglo XIII, y la segunda — astronómica — al XIV, con algunos atisbos científicos de la primera mitad del XV — época en que fué escrito indudablemente —, lo que demuestra que el compilador era hombre que conocía algunos de los adelantos ya introducidos en la Astronomía. Esto implica una cultura nada vulgar, incompatible con las creencias de D. ENRIQUE DE ARAGON, señor de Iniesta, que más se curaba de supersticiones que de realidades empíricas."

G. S.

Zingarelli, Nicola. La vita, i tempi e le opere di DANTE. Two volumes. Milan, VALLARDI, 1931. ISIS

XIVth Century (second half)

Becker, M. Janet. Rochester Bridge, 1387-1856 : a history of its early years compiled from the Wardens' Accounts. Foreword by S. C. RATCLIFF. XVI + 123 p., 10 pl. London, CONSTABLE, 1930. ISIS

Reviewed in *Antiquity*, 5, 144, 1931.

Buron, Edmond Joseph Pierre. *Ymago mundi* de PIERRE D'AILLY, Cardinal de Cambrai et Chancelier de l'Univ. de Paris (1350-1420). Texte latin et traduction française des quatre traités cosmographiques de D'AILLY et des notes marginales de CHRISTOPHE COLOMB. Etude sur les sources de l'auteur. Tome I-III. 828 p. Paris, MAISONNEUVE, 1930-31. ISIS

Reviewed by JOHN BIGELOW, *American Historical Review*, 37, 127-28, 1931; by E. ZINNER, *DLZ*, 3, 40-42, 1932.

XVth Century (whole and first half)

Fischer, Hermann. Naturselbstdrucke von Pflanzen aus dem 15. Jahrhundert. *Bericht der Oberhessischen Gesellschaft für Natur- und Heilkunde* zu Giessen, 13, 27-30, 1 pl., 1929. ISIS

Guerra, Giorgio del. I primi addottorati in medicina dello studio pisano (Dal 1433 alla calata di CARLO VIII). *Rivista di storia delle scienze mediche e naturali*, 22, 376-80, 1931. ISIS

XVth Century (second half)

Le Fanu, W. R.; Klebs. A. C. Incunabula in the Library of the Royal College of Surgeons of England. *Annals of Medical History*, 3, 674-76, 1931. ISIS

XVIth Century (whole and first half)

B. — *Physical sciences and technology*

Girardet, F. Commentaire sur la miniature du Graduel représentant le travail dans les mines de la Croix, procédés de la métallurgie lorraine au 16e siècle. *Bull. soc. philom. Vosgienne*, Saint-Dié, t. 53-54, 111-17, 2 pl., 1929. ISIS

C. — *Natural sciences*

Gregorio, S. FRANCESCO MAUROLICO e la fisiologia dell' occhio. *Boll. Ist. Stor. Ital. Arte Sanit.*, 11, 107-09, 1 fig., 1931. ISIS

D. — *Medical sciences*

Feyfer, F. M. G. de. Een portret van ANDREAS VESALIUS. *Bijdragen tot de geschiedenis der geneeskunde*, 12, 1-14, 7 fig., 1 pl., 1931. ISIS

Fritz, Józef. (History of pediatrics in Poland). *Pols. gaz. lek.*, 10, 405-08, 1931. (Polish). ISIS

Apropos of the oldest Polish treatise on pediatrics (Cracow, 1534), which is a partial translation of ROESSLIN's " Der schwangeren Frauen u. Hebammen Rosengarten " (Augsburg, 1528).

Kemble, James. HENRY THE EIGHTH. A psychological survey and a surgical explanation. *Annals of Medical History*, 3, 619-25, 1931. ISIS

Kühl, Walter. Der Zahnarzt im Lichte der Schriften HANS SACHS'. *Korrbl. f. Zahnärzte*, 55, 126-29, 1931. ISIS

Hohenheim, Theophrast von. (Paracelsus). Sämtliche Werke. 1 Abtlg. : Medizinische, naturwissenschaftliche und philosophische Schriften. Hrsg. von KARL SUDHOFF. Bd. 4. Vorlesungen des Sommers 1527 zu Basel : *De Gradibus*, von Apostemen, Geschwären, offenen Schäden usw., vom Aderlass, *Modus pharmacandi*, Aphorismen-Kommentar, *De urinis*. XL + 676 p., 1 port., 15 fig. München, OLDENBOURG, 1931. ISIS

Reviewed by HABERLING, *Mitteilungen zur Geschichte der Medizin und der Naturwissenschaften*, 30, 270, 1931.

Sticker, Georg. Von Volkskrankheiten, welche die weissen Eroberer nach der Neuen Welt getragen haben. *Münch. med. Wschr.*, 78, 933-34, 1931. ISIS

Winkler, Ludwig. Eine Krankheitsgeschichte aus der Mitte des 16. Jahrhunderts. *Ther. Ber.*, 8, 149-53, 187-91, 10 fig., 1931. ISIS

Wright, Wilmer Cave. HIERONYMI FRACASTORII *De contagione et contagiosis morbis et eorum curatione*, libri III. Translation and notes. LVII + A-F + 356 p., 2 pl. (*History of Medicine Series* issued under the auspices of the Library of the New York Academy of Medicine, no. II). New York, PUTNAM'S, 1930. ISIS

Reviewed by CHAUNCEY D. LEAKE, *Isis*, 16, 138-41, 1931.

E. — *Alia*

Beyer-Fröhlich, Marianne. Aus dem Zeitalter des Humanismus und der Reformation. 314 p., 1 port. (Deutsche Literatur. Reihe Deutsche Selbstzeugnisse. Bd. 4). Leipzig, Reclam, 1931. ISIS

Biggar, Henry Percival. A collection of documents relating to JACQUES CARTIER and the Sieur DE ROBERVAL. XXXVII + 577 p. (*Publications of the Public Archives of Canada*, no. 14.) Ottawa, Public Archives of Canada, 1930. ISIS

Reviewed by J. BARTLET BREBNER, *American Historical Review*, 37, 129-30, 1931.

Hyma, Albert. The youth of ERASMUS. XI + 350 p. (*University of Michigan Publications*, History and Political Science, vol. 10.) Ann Arbor, University of Michigan Press, 1930. ISIS

Reviewed by PRESERVED SMITH. *American Historical Review*, 37, 100-02, 1931.

Ronçière, Charles de la. JACQUES CARTIER et la découverte de la

Nouvelle-France. 244 p., front., illus. (*Les Grandes Figures Coloniales*, 2.) Paris, PLON, 1931. ISIS

Reviewed by J. BARTLET BREBNER, *American Historical Review*, 37, 129-30, 1931.

Weitnauer, Alfred. Venezianischer Handel der FUGGER. Nach der Musterbuchhaltung des MATTHÄUS SCHWARZ. XVI + 323 p. (*Stud. z. Fugger-Gesch.* Hrsg. v. JAKOB STRIEDER. Bd. 9.) München, DUNCKER & HUMBLOT, 1931. ISIS

Reviewed by ALOYS SCHULTE, *DLZ*, 2, 2055-57, 1931.

XVIth Century (second half)

C. — *Natural sciences*

Starkenstein, E. Das Kräuterbuch des MATTHIOLUS. Mit einer farbigen Beilage. *Schering-Kahlbaum med. Mitt.*, 3, 104-06, ill., 1931. ISIS

D. — *Medical sciences*

Ferguson, John. The secrets of ALEXIS. A sixteenth century collection of medical and technical receipts. *Proceedings of the Royal Society of Medicine*, 24, 225-46, 1930. ISIS

This important paper, unpublished at the time of the author's death, was originally read to the Society of Antiquaries, London, in 1897; in 1930, it was presented to the Section of the History of Medicine, Royal Society of Medicine, London, by A. P. CAWADIAS. Previous notes on the same subject by Professor FERGUSON will be found in the *Trans. Archeolog. Soc.* of Glasgow, vol. II, and in the first supplement.

Little is known of ALEXIS OF PIEDMONT. There is evidence that he lived from 1471 to 1565, traveled extensively in Italy as well as the East, and was known as a scientific man and a practitioner of medicine. About 1555, he wrote a book on secret remedies for disease (De' Secreti), probably published in Venice, 1556; the first known edition is Venice, 1557. The book had a wide circulation over a long period, and FERGUSON lists 69 editions up to 1691, in Italian (1557), French (1557), English (1558), Latin (1559), Dutch (1561), etc. The authorship has been questioned. In a preface by SANSOVINO in JERONIMO RUSCELLI's *Secreti Nvovi* (Venice, 1567), it is stated thay RUSCELLI " gave to the press under the feigned name of Donno ALESSIO OF PIEDMONT " the book usually attributed to ALEXIS. Professor FERGUSON doubts the validity of this statement, although he feels that more evidence is necessary before the truth can definitely be stated. H. R. V.

Fritz, Josef. Polish physicians who studied under H. FABRICIUS AB AQUAPENDENTE. *Janus*, 35, 119-24, 3 pl., 1931. ISIS

XVIIth Century (whole and first half)

A. — *Mathematics*

Serrurier, C. DESCARTES, Leer en Leven. Met portret. 's Gravenhage, NIJHOFF, 1930. ISIS

Reviewed by F. M. G. DE FEYFER, *Bijdragen tot de geschiedenis der geneeskunde*, 12, 15, 1931.

B. — *Physical sciences and technology*

Dyck, Walther von. JOHANNES KEPLERS Weltanschauung. *Zeitwende*, 7, 216-29, 1931. ISIS

Emanuelli, Pio. Ai margini del terzo centenario della morte di KEPLERO. *Riv. Fis. ecc.*, 5, 178-83, 1931. ISIS

(Galilei). Introduzione storica alla lettura del dialogo sui massimi sistemi di GALILEO GALILEI. Ed. UMBERTO FORTI. IV + 211 p. (*Per la storia e la filosofia delle matem.*, no. 9). Bologna, ZANICHELLI, 1931. ISIS

Reviewed by WIELEITNER, *Mitteilungen zur Geschichte der Medizin und der Naturwissenschaften* 30, 233, 1931.

C. — *Natural sciences*

Fulton, John F. The rise of the experimental method : BACON and the Royal Society of London. *Yale J. Biol. Med.*, 3, 299-320, 11 illus., 1931. ISIS

" The scientific revolution of the 17th century came about when men looked up from their classical texts to see the world about them. The universities, instead of accepting the new spirit which was swaying men's thoughts and transforming their lives, stood out against it for a full 200 years. The assimilation by the universities of scientific ideals has occurred almost entirely within the last 50 years, and the remarkable renaissance that has come about in university life during this period can scarcely be regarded as a coincidence... The growth of scientific institutions outside the universities was necessary in the 17th and 18th centuries if science were to exist at all. Now, on the other hand, we must look upon the rise of extramural organizations with the gravest concern... The great commercial laboratories of the electrical companies, drug houses, and photographic concerns were established to meet practical needs which had not been met within our walls. These selfsame laboratories have begun to consider other problems and to assume an importance equal, in many cases, to corresponding departments in the universities. I think this is wrong, and the only way in which we can stem the growth of such institutions is to take up the problems which they consider, and to

deal with them more effectively. It is vital that we do this if our ethical traditions are to mean anything in the world at large." C. D. L.

Wein, Kurt. *Urtica* Dodartii, die Geschichte einer Mutation. *Repertorium spec. nov. regni vegetabilis*, Beiheft 61, 99-105, 1930. ISIS

Reviewed by RUD. ZAUNICK, *Mitteilungen zur Geschichte der Medizin und der Naturwissenschaften*, 30, 251, 1931.

D. — *Medical sciences*

Andel, M. A. van. BONTIUS en PISO over de dysenterie in beide Indien. *Bijdragen tot de geschiedenis der geneeskunde*, 11, 285-92, 1931. ISIS

JACOBUS BONTIUS (DE BONDT), 1592-1631.
WILLEM PISO, 1611-1678.

(Bontius, Jacobus. 1592-1631). BONTIUS Tropische Geneeskunde. BONTIUS On Tropical Medicine. LXXIV + 459 p., 4 facs., 108 plates. *Opuscula selecta Neerlandicorum de arte medica*, fasciculus X. Amsterdam, Nederlandsch Tijdschrift voor Geneeskunde, 1931. ISIS

The Dutch and English part consists of an introduction by M. A. VAN ANDEL, of BONTIUS' last will, of an analytical index of the six books of BONTIUS, and of biographical notices.

The Latin text of books I-IV is that of the F. HACKIUS 32° edition, Leiden, 1642; the English translation of these books is a reprint of *An account of the diseases, natural-history, and medicines of the East-Indies*, London, T. NOTEMAN, 1769.

The Latin text of books V and VI is taken from the folio Elzevier of PISO, *De Indiae utriusque re naturali et medica*, Amsterdam, 1658; the modern English translation of these two books is by A. QUERIDO.

Contents of the six books of BONTIUS : I. Animadversions on Book I and II of GARCIA AB ORTA; II. Dialogues on the preservation of health, and on the diet most suitable in the Indies; III. An account of the diseases, natural history and medicines of the East Indies; IV. Some select observations taken from the dissection of dead bodies; Some select observations on endemic diseases in the Indies; V. On quadrupeds, birds and fishes; VI. On plants and spices.

A list of plants and a list of animals mentioned by BONTIUS are added.

A. P.

Capparoni, Pietro. Sulla patria di GIOVANNI ALFONSO BORELLI. *Riv. stor. sci. med. e natur.*, 20, 53-63, 3 fig., 1931. ISIS

Born in Naples, 1608; died in Rome, 1679.

Castiglioni, Arturo. Life and work of SANCTORIUS. Authorized translation from the Italian by EMILIE RECHT. *Medical Life*, 38, 729-86, ill., 1931. ISIS

Marcham, Frederick George. Letters of an English physician in the early seventeenth century. *Isis*, 16, 55-81, 1931. ISIS

Peachey, George C. THOMAS TRAPHAM—(CROMWELL's surgeon)—and others. *Proceedings of the Royal Society of Medicine*, 24, 1441-49, 1931. ISIS

The historian of medicine owes a heavy debt of gratitude to GEORGE C. PEACHEY for rescuing from oblivion certain English physicians, unknown to the makers of the Dictionary of National Biography. THOMAS TRAPHAM (1633-1683) embalmed the body of King CHARLES I after execution (1648), replacing the head. The body was examined in 1813 by Sir HENRY HALFORD, who found that, although the head was in place, the fourth cervical vertebra had been cleanly cut through. TRAPHAM continued as CROMWELL's body-surgeon until the time of the Restoration, when he retired to Berkshire, where he died in 1683. PEACHEY gives many details of his life as well as notes on his contemporary physicians, equally unknown : GEORGE BATE, JONATHAN GODDARD, BALDWIN HAMEY, JAMES MOLEYNS, TONY GARBAND, LAWRENCE WRIGHT, and TRAPHAM's son, THOMAS TRAPHAM, M. D. H. R. V.

XVIIth Century (second half)

A. — *Mathematics*

Helbronner, Paul. Sur un texte de la troisième lettre circulaire de PASCAL, relative à la cycloïde (7 et 9 octobre 1658). *C. R. Ac. Sci.*, 192, 998-1000, 1931. ISIS

Hofmann, Jos. E.; Wieleitner, H. Die Differenzenrechnung bei LEIBNIZ. Mit Zusätzen von D. MAHNKE. *Sitzungsberichte der preussischen Akademie der Wissenschaften*, 26, 41 p., 1931. ISIS

Rougier, Louis. L'affaire PASCAL et la méthode littéraire de M. BRUNSCHVICG. *Mercure de France*, 231, 513-53, 1931. ISIS

Conclusion : " M. MATHIEU a ouvert en 1906 un grand procès historique que M. BRUNSCHVICG a cru pouvoir clore en 1908 et qui est tenu, depuis lors, pour chose jugée. Il ne nous appartient pas de prendre la défense de M. MATHIEU et ce n'est nullement à sa requête que nous avons rédigé cet article. Notre opinion personnelle ne saurait en rien engager sa façon actuelle de voir et il est à présumer que nos vues sur l'affaire PASCAL sont divergentes sur plus d'un point. Nous ne trancherons point ici la question de l'authenticité de la lettre à FLORIN PÉRIER, ni de la valeur du témoignage de PECQUET. Notre prétention est plus modeste. Nous avons voulu montrer, par l'étude de la méthode littéraire de M. BRUNSCHVICG, que les arguments de sa défense en faveur de PASCAL, reposant sur de mauvaises lectures de textes et des usages que la probité littéraire réprouve, portent en eux-mêmes l'aveu de leur partialité et de leur faiblesse. M. BRUNSCHVICG, conseiller rapporteur bénévole, a versé au déleat un *dossier falsifié*. Le procès engagé par M. MATHIEU reste toujours ouvert."

C. — *Natural sciences*

Jacks, Leo Vincent. LA SALLE. 282 p., map. London, SCRIBNER'S, 1931. ISIS

Rijnberk, G. van. Het negende opusculum. Veertien tot heden geheel onuitgegeven brieven van ANTONI VAN LEEUWENHOECK uit de jaren 1674-1678. *Bijdragen tot de geschiedenis der geneeskunde*, 11, 261-64, 1931. ISIS

Wein, Kurt. JOHN RAY als Erforscher der Flora von Bayern. *Mitt. Bayer. Bot. Ges.* München, 4, 191-96, 1931. ISIS

Apropos of " Observations topographical, moral & physiological, made in a journey through part of the Low Countries, Germany, Italy, and France " (London, 1673), and " *Catalogus stirpium in exteris regionibus a nobis observatarum* " (London, 1673), by JOHN RAY (1635-1672).

D. — *Medical sciences*

Ebstein, Erich. JAN STEEN, der Maler des Krankenzimmers. *Ther. Ber.*, 8, 113-16, 5 fig., 1931. ISIS

Franklin, K. J. Some notes on RICHARD LOWER (1631-1691), and his " *De corde*," London, 1669. *Annals of Medical History*, 3, 599-602, 6 fig., 1931. ISIS

Froehner, Reinhard. Betrachtungen über das Wesen des Wurms. *Vet.-hist. Mitt.*, 11, 17-19, 1931. ISIS

Apropos of *Ross Artzney Buch* by WEITZ VON OSCHITZ (Meissen MS, 1677) and *Ross Artzney Buch* by JAKOB FOILLET (Strassburg, 1599).

Nicolson, Marjorie Hope. CONWAY letters. The correspondence of ANNE, Viscountess CONWAY, HENRY MORE, and their friends, 1642-1684. XXVII + 517 p. New Haven, Yale University Press, 1930. ISIS

Reviewed by J. PELSENEER, *Isis*, 16, 141-43, 1931.

Viviani, Ugo. Quanto guadagnava all' anno FRANCESCO REDI? *Riv. stor. sci. med. e natur.*, 22, 91-93, 1931. ISIS

E. — *Alia*

Choisy, François Timoléon. Journal du voyage au Siam fait en 1685 et 1686 par l'abbé DE CHOISY. Précédé d'une étude par MAURICE GARÇON. Paris, DUCHARTRE & VAN BUGGENHOUDT, 1930. ISIS

Fontenelle. De l'origine des fables. Edition critique, avec une introduction, des notes et un commentaire, par J. R. CARRÉ. II + 106 p. Paris, ALCAN, 1932. ISIS

Première édition critique de *L'Origine des fables*. Cet opuscule n'a été publié qu'en 1724, mais J. R. CARRÉ, dans son introduction, montre que FONTENELLE était, dès avant 1680, en possession des idées de cet essai, six ans avant la publication de son *Histoire des oracles*, laquelle n'était d'ailleurs qu'une traduction et un arrangement d'un ouvrage d'ANTOINE VAN DALE : *De oraculis ethnicorum dissertationes duae...* (1683). Si l'on considère que les travaux de P. BAYLE datent de 1682, ceux du P. R. J. DE TOURNEMINE de 1702, que ceux de LA CRÉQUINIÈRE n'ont vu le jour qu'en 1704, FONTENELLE apparaît comme le fondateur du comparatisme en matière de mythes et de religions. Le texte publié est celui de 1724; il est comparé à celui de *Sur l'histoire*, dont il dérive, et qui est, lui aussi, antérieur à 1680. L. G.

XVIIIth Century (whole and first half)

A. — *Mathematics*

Agostini, Amedeo. Due lettere inedite di GIROLAMO SACCHERI. *Memorie della Reale Accademia d'Italia*, Classe di Scienze Fisiche, Matematiche e Naturali, 2, 20 p., 10 fig., 1931. ISIS

Correspondence of GIROLAMO SACCHERI (1667-1733) with GUIDO GRANDI (1671-1742) and TOMASO CEVA (1648-1736).

B. — *Physical sciences and technology*

Bortolotti, Ettore. LUIGI FERDINANDO MARSIGLI e la riforma dello studio di Bologna. Supplemento alle *Memorie della R. Accademia delle Scienze dell'Istituto di Bologna*, 13 p., 1930. ISIS

Favre, Adrien. Les origines du système métrique. 242 p. Paris, Les Presses Universitaires de France, 1931. ISIS

Reviewed by C. DORIS HELLMAN, *Isis*, 16, 449-50, 1931.

Sarton, George. Discovery of the aberration of light. With facsimile reproduction (no. XII) of JAMES BRADLEY's letter to EDMOND HALLEY giving an account of his discovery (*Philosophical Transactions*, no. 406, vol. 35, 637-61, 1729). *Isis*, 16, 233-65, facs., portr., 1931. ISIS

Schmid, Alfred. Das erste wissenschaftliche Handbuch der Astronomie in deutscher Sprache, das Werk eines deutschen Dichters. *Der Schweizer Sammler*, 5, 8 pl., 1931. ISIS

Astronomisches Handbuch (Nürnberg, 1718) by JOH. LEONH. ROST (1688-1727).

Westegaard, Waldemar. DANIEL GABRIEL FAHRENHEIT (1686-1736). *Science*, 74, 588, 1931. ISIS

C. — *Natural sciences*

Brater, Else. Alchemie in Würzburg in den Jahren 1746-1749. *Sudhoffs Archiv für Geschichte der Medizin*, 24, 329-70, 2 fig., 1931. ISIS

Franchini, Joseph. ANTONIO VALLISNERI (May 3, 1661—January 18, 1730): On the second centenary of his death. "*Maxima Parvo Tempore Molimus.*" *Ann. Med. Hist.*, 3, 58-68, 10 illus., 1931. ISIS

Pupil of MALPIGHI, Professor of Practical Medicine at Padua, and noteworthy for his studies on insects and in refutation of the idea of spontaneous generation. C. D. L.

Neviani, Antonio. Di un Museo di Storia Naturale in Livorno al principio del secolo XVIII, di TIBERIO e PIER PAOLO SCALI. *Memorie della Pontificia Accademia delle Scienze*, I nuovi Lincei, 11.

Reviewed by GINO VERITÀ, *Rivista di Storia delle Scienze Mediche e Naturali*, 22, 384, 1931.

Oberstein. Kartoffelbilder aus alter Zeit. *Pflanzenbau*, 7, 120-22, 1930. ISIS

Apropos of the Dresden MS B 116-125, *Phytologia magna*, by the physicians ISRAEL VOLCKMANN (d. 1706) and GEORG ANTON VOLCKMANN (d. 1721).

Pertzoff, Vladimir. LOMONOSOV and his contribution to natural science. *Journal of Urusvati* (Himalayan Research Institute, Roerich Museum, New York), 1, 49-65, 1931. ISIS

Postelmann, A. Aus der Frühzeit der ostpreussischen Geschiebeforschung. *Zeitschr. f. Geschiebeforschung*, 7, 86-89, 1931. ISIS

Apropos of *De Oolitho Regiomontano* (1733) by CARL HEINRICH RAPPOLT.

Skutil, Jos. Une ancienne trouvaille paléontologique à Dijon. *L'Homme préhistorique*, 15, 241-42, 1928. ISIS

Apropos of *Diversités curieuses* (1722) by J.-B. LUCOTTE DU TILLIOT.

D. — *Medical sciences*

Caulfield, Ernest. The infant welfare movement in the eighteenth century. Foreword by GEORGE FREDERIC STILL. XIX + 203 p., 8 illus., pl., port., facs. New York, HOEBER, 1931. ISIS

Reviewed by W. N. BRADLEY, *Annals of Medical History*, 3, 682, 1931.

Dagen, Georges. La vie privée des anciens dentistes parisiens : Les TUBEUFS. *La Semaine Dentaire*, 657-61, 1931. ISIS

Friedel, David. Ein altes Seekrankheitsrezept. *Schering-Kahlbaum. Med. Mitt.*, 3, 141-42, 1 fig., 1931. ISIS

Apropos of "Expediter und Bewährter Medicus..." by DAVID FRIEDEL (Leipzig u. Rostock, 1726).

Gebauer, Curt. Geistige Strömungen und Sittlichkeit im 18. Jahrhundert. 270 p. Charlottenburg, Wegweiser, 1931. ISIS

Reviewed by VORWAHL, *Mitteilungen zur Geschichte der Medizin und der Naturwissenschaften*, 30, 272, 1931.

Lejeune, Fritz. War FAUCHARD Zahnarzt? 32 p. (*Arb. d. dtsch.-nordischen Gesellsch. f. Gesch. d. Med., d. Zahnheilk. u. d. Naturwiss.*, 8.) Greifswald, BAMBERG, 1931. ISIS

Reviewed by HABERLING, *Mitteilungen zur Geschichte der Medizin und der Naturwissenschaften*, 30, 284, 1931.

Moorman, L. J. Tuberculosis and genius : VOLTAIRE. *Annals of Medical History*, 3, 626-37, 1931. ISIS

(**Morgagni, Giambattista**). Le onoranze a G. B. MORGAGNI. Forlì, 24 maggio 1931-IX. 150 p., ill., Siena, Bernardino, 1931. ISIS

Compiled by ANDREA CORSINI, PIETRO ZOBOLI, and BENEDETTO PERGOLI. Contains, in addition to biographical and bibliographical data and numerous excellent illustrations, the following papers : GIAMBATTISTA MORGAGNI e ANTONIO SCARPA, by GIUSEPPE FAVARO; "Publica Doctoratus privilegia" a MORGAGNO Praeside subscripta, by GIUSEPPE FAVARO; GIOVAN BATTISTA MORGAGNI e ANTON MARIA VALSALVA (Discepolo e maestro), by GIUSEPPE MAZZINI; MORGAGNI e INGRASSIA, by F. ORLANDO-SALINAS; La dottrina costituzionalistica in GIOVANNI BATTISTA MORGAGNI, by PANTALEONI PIO; Alcuni rilievi in rapporto ad alcune rivendicazioni Morgagnane, by P. PICCINNI; L'appendice vermiforme nelle opere di G. B. MORGAGNI, by SANTE SOLIERI; Il concetto di "Tubercolosi" nelle opere di G. B. MORGAGNI, by PANTALEONI PIO; I manoscritti inediti di GIAN BATTISTA MORGAGNI nella Biblioteca Palatina di Parma, by ENRICO BENASSI; Impronte di G. B. MORGAGNI nella cardiologia moderna, by G. COLLINA; Le conoscenze stomatologiche di G. B. MORGAGNI, by R. BABINI; Le osservazioni di G. B. MORGAGNI sulla morte del Conte UGOLINO, by LIBORIO GIUFFRÈ; Una edizione poco nota degli *Opuscula miscellanea* del MORGAGNI, by AUGUSTO CAMPANA.

Santi, de. Les délits religieux dans la magistrature civile au XVIIIe siècle. (Procédures de la Sénéchaussée de Lauraguais). *Mém. de l'Acad. des Sciences, Inscriptions et Belles Lettres de Toulouse*, 8, 197-207, 1930. ISIS

Seibels, Robert E. THOMAS DALE, M.D. (1700-1750) of Charleston, S. C. *Ann. Med. Hist.*, 3, 50-57, 1931. ISIS

Translator of JOHN FRIEND's *Emmenologia* (London, 1729), and *Fevers* (London, 1730), and early American versifier. C. D. L.

Vieyra, D. Een practiseerende dokterswedu we uit 1705. *Bijdragen tot de geschiedenis der geneeskunde*, 12, 16, 1931. ISIS

Wölfflin, E. Demonstration einiger ophthalmologischer Tafeln aus dem Beginn des 18. Jahrhunderts. *Verh. Schweiz. Naturf. Ges.*, 111, 376-77, 1930. ISIS

E. — *Alia*

Brasch, Frederick E. The Royal Society of London and its influence upon scientific thought in the American Colonies. *Scientific Monthly*, 33, 336-55, 448-69, 5 port., 1931. ISIS

Very valuable study on the scientific movement which took place in the United States in the eighteenth century mainly under the influence of the Royal Society. The author deals only with American scientists who were fellows of that society, and BENJAMIN THOMPSON and JOSEPH PRIESTLEY are not considered because their main work was done outside of America. After the Treaty of Paris (1783), the English influence was replaced for half a century by the French, and later by the German. G. S.

Hone, Joseph Maunsell ; Rossi, M. M. Bishop BERKELEY. His life, writings, and philosophy. Introduction by W. B. YEATS. XXIX + 286 p. London, FABER and FABER, 1931. ISIS

XVIIIth Century (second half)

A. — *Mathematics*

Bergmann, Hugo. SALOMON MAIMONS Philosophie der Mathematik. *Isis*, 16, 220-32, 1931. ISIS

Bortolotti, Ettore. Commemorazione di GIANFRANCESCO MALFATTI. *Atti della XIX Riunione della Società Italiana per il Progresso delle Scienze*, 2, 15 p., 1930. ISIS

B. — *Physical sciences and technology*

Hellman, C. Doris. JEFFERSON's efforts towards the decimalization of United States weights and measures. *Isis*, 16, 266-314, 2 pl., 1931. ISIS

Walden, P. Zur Geschichte der Kristallzüchtung und der Übersättigungserscheinungen. *Chem.-Ztg.*, 55, 373-74, 1931. ISIS

Apropos of JOHANN TOBIAS LOWITZ (1757-1804).

C. — *Natural sciences*

Holmes, Maurice. Captain COOK's voyages. *The Times Literary Supplement*, p. 866, November 5, 1931. ISIS

Mony, P. LAMARCK, créateur du transformisme. *Bull. soc. linnéenne du Nord de la France* (Amiens), 24, 6-21, 1929. ISIS

Neviani, Antonio. L'opera scientifico-filosofica di LAMARCK. *Memorie della Pontificia Accademia delle Scienze Nuovi Lincei*, 14. ISIS

Reviewed by GINO VERITÀ, *Rivista di Storia delle Scienze Mediche e Naturali*, 22, 384, 1931.

Walther, Johannes. GOETHE als Seher und Erforscher der Natur. Untersuchungen über GOETHES Stellung zu den Problemen der Natur. Mit 15 Tafeln nach Originalen im GOETHEhaus zu Weimar. VIII + 324 p. (Hrsg. im Namen der Kaiserlich Leopoldinischen Deutschen Akademie der Naturforscher zu Halle.) 1930. ISIS

Reviewed by GEORGE SARTON, *Isis*, 16, 143-45, 1931.

√ (**White, Gilbert.** 1720-1793). Journals of GILBERT WHITE. Edited by WALTER JOHNSON. XLVIII + 463 p., 4 pl. (*Broadway diaries, memoirs, and letters.*) London, ROUTLEDGE, 1931. ISIS

Reviewed in *Nature*, 128, 952, 1931.

D. — *Medical sciences*

Berger, J. A. Een "Collegium medicum te Vlissingen." *Bijdragen tot de geschiedenis der geneeskunde*, 11, 305-11, 1931. ISIS

Casarini, Arturo. Un epidemiologista militare Italiano della scuola di BOERHAAVE e la medicina nei secoli XVI-XVII nelle relazioni culturali Italo-Olandesi. *Giorn. di Med. Milit.* Roma, 1931. ISIS

Apropos of MICHELE SARCONE (1731-1797).

Drewitt, Frederic Dawtrey. The life of EDWARD JENNER, naturalist and discoverer of vaccination. VIII + 127 p., port. London, LONGMANS, GREEN, 1931. ISIS

Drewitt, Frederic Dawtrey. The note-book of EDWARD JENNER in

the possession of the Royal College of Physicians of London with an introduction on JENNER's work as a naturalist. VII + 49 p. Oxford, University Press, 1931. ISIS

Reviewed by C. DORIS HELLMAN, *Annals of Medical History*, 3, 681-82, 1931.

Dubar, Léon. Le sort de LOUIS XVI et l'abus des lunettes. *Journ. Opt.*, 14-18, Paris, 1930. ISIS

Froehner, Reinhard. Pferdedepot und Pferdelazarett in der sächsischen Armee 1795. *Vet.-hist. Mitt.*, 11, 24, 1931. ISIS

Genty. Figures médicales d'autrefois, ROUGNON, 1727-1799. *Progrès médical*, supplément illustré, no. 12, 95-96, 1930. ISIS

Kremers, Edward. Historical fragments No. 22 : two invoices of 1785. *Journ. Amer. Pharmac. Assoc.*, 20, 682-95, 2 facsim., 1931. ISIS

So far as is known, these are the earliest documents of their kind revealing the continued dependence of American pharmacy upon that of the mother country after political independence had been declared and accomplished. The invoices are lists of medicaments, etc. received by CHRISTOPHER and CHARLES MARSHALL, also by MOSES BARTRAM, both of Philadelphia, from JOSEPH GURNEY BEVAN of London, now ALLAN and HANBURY. E. K.

Reussner, André. L'hygiène navale à la fin du XVIIIe siècle. *Revue de l'histoire des Colonies françaises*, 19, 35-54, 1931. ISIS

Rieck, Wilhelm. Die Pferdezahnlehre des J. W. KRUMM. *Vet.-hist. Jahrb.*, 6, 151-59, 1931. ISIS

Staderini, R. Brevi cenni intorno alla vita ed alle opere di PAOLO MASCAGNI. Discorso letto il 19 novembre 1930, nell' Anfiteatro anatomico degli Istituti biologici dell'Università di Siena. *Annuario Accad. della R. Univ. degli Studi di Siena*, 28 p., ill., 1930-31. ISIS

Vieyra, D. Recept ter bestrijding van den kanker. *Bijdragen tot de geschiedenis der geneeskunde*, 11, 281, 1931. ISIS

E. — *Alia*

Cridler-Segonne, Lilian. Le rêve du Chevalier ALEXANDRE-MARIE QUESNAY DE BEAUREPAIRE : la nouvelle Académie des Sciences de Richmond, Virginie. *Revue Bleue*, 69, 651-55, 1931. ISIS

Greig, John Young Thomson. DAVID HUME. London, CAPE, 1931. ISIS

Roule, Louis. La vie et l'œuvre de BERNARDIN DE SAINT-PIERRE. *Bull. ass. franç. avanc. sci.*, 58, 21-30, Paris, 1929. ISIS

XIXth Century (whole and first half)

A. — *Mathematics*

Alliaume, Maurice (d. 1931). Esquisse de l'histoire des mathématiques et de l'astronomie en Belgique depuis 1830. *Revue des Questions Scientifiques*, 18, 267-305, 1930 ; also in *Histoire de la Belgique contemporaine*, 3, 373-402, 1930. ISIS

Bolzano, Bernard. Wissenschaftslehre. 4 Bde. Neudruck, 2. verb. Aufl. Nach ALOIS HÖFLERS Tode mit einem Nachweis der von BOLZANO zitierten Verfasser, Werke und Stellen hrsg. v. WOLFGANG SCHULTZ. Bd. III : VIII + 575 p. ; Bd. IV : XX + 717 p. Leipzig, MEINER, 1929-31. ISIS

Reviewed by HEINRICH SCHOLZ, *DLZ*, 2, 2152-56, 1931.

Bortolotti, Ettore. Contributo alla teoria dei Gruppi di Operazioni e carteggio matematico di PAOLO RUFFINI. *Rendiconto delle Sessioni della R. Accademia delle Scienze dell' Istituto di Bologna*, 8 p., 1928-29. ISIS

Fladt, Kuno. KARL FRIEDRICH GAUSS. Aus *Unterricht und Forschung*, 13, 11-16, 54-60, 1931. ISIS

MacDonald, Thomas L. The anagram of GAUSS. *Astron. Nachr.*, 241, 31-32, 1931. ISIS

Natucci, A. Sulla geometria dei cerchi e delle sfere : contributi dei geometri francesi agl' inizi dell'Ottocento. *Period. di mat.*, 11, 69-83, 1931. ISIS

Ocagne, Maurice d'. Mathématiciens polytechniciens du XIXe siècle. *Revue des questions scientifiques*, 20, 5-37, 1931. ISIS

B. — *Physical sciences and technology*

Ames, Joseph S. Certain aspects of HENRY's experiments on electromagnetic induction. *Science*, 75, 87-92, 1932. ISIS

Butcher, R. W. FARADAY as a botanist. *Nature*, 128, 820-21, 1931. ISIS

Richard, Antoine. L'ancienne métallurgie landaise de 1800 à 1840. *Bull. soc. Borda*, Dax, 52, 62-75, 1929. ISIS

Shaw, Sir Napier. A century of meteorology. *Nature*, 128, 925-26, 1931. ISIS

Stempell, G. von. Zum 150. Geburtstage von JOSEPH JOHANN VON LITTROW. *Das Weltall*, 30, 81-83, 1931. ISIS

JOS. JOH. VON LITTROW, 1781-1840.

C. — *Natural sciences*

Balss, Heinrich. KIELMEYER als Biologe. *Arch. Gesch. Med.*, 23, 268-88, 1930. ISIS

A student at Göttingen under BLUMENBACH and LICHTENBERG, KIELMEYER was made Professor of Zoology at the Karlsakademie in 1790, Reader in Chemistry at Tübingen in 1796, and Professor of Botany, Pharmacy, and Materia Medica at Tübingen in 1801. He was a friend of CUVIER and GOETHE. A pioneer thinker in biological evolution and in the biological effects of electrical phenomena, his work survives in his correspondence, and in the dissertations of his pupils. C. D. L.

Balss, Heinrich. Eine Rede KARL FRIEDRICH KIELMEYERS. *Arch. Gesch. Med.*, 23, 247-67, 1930. ISIS

Dalton, Edward W. The first sighting of the Antarctic continent. A critical analysis of BISCOE's discovery of Enderby land. *Isis*, 16, 379-92, 1931. ISIS

Färber, Eduard. HEGEL und die Chemie. *Chemiker-Zeitung*, 55, 873-74, 1931. ISIS

Gregory, J. W. A century of geology. *Nature*, 128, 857-60, 1931. ISIS

Kraglievich, Lucas. DARWIN. Algo sobre su labor científica en nuestro país. *Anales Sociedad Científica Argentina*, 109, 353-76, 1930. ISIS

Maurer, Friedrich. LORENZ OKEN, sein Leben und Wirken. Gedächtnisrede, gehalten in der Aula der Universität Jena am 31. Januar 1930. *Jenaische Zeitschr. f. Naturwiss.*, 64, 531-50, port., 1930. ISIS

Richter, Rud. FORCHHAMMER zur Gezeitenschichtung. *Senckenbergiana*, 12, 369-72, 1930. ISIS

JOH. GEORG FORCHHAMMER, 1794-1865.

Sarton, George. The discovery of the mammalian egg and the foundation of modern embryology. With a complete facsimile (no. XIII) of K. E. VON BAER's fundamental memoir : *De ovi mammalium et hominis genesi* (Leipzig, 1827). *Isis*, 16, 315-78, facsim., portr., 1931. ISIS

Weidenreich, Franz. LAMARCK, seine Persönlichkeit und sein Werk. Zur 100. Wiederkehr seines Todestages. *Natur u. Museum*, 60, 326-33, 363-69, 1 fig., 1930. ISIS

Weiss, Harry B. ; Ziegler, Grace M. THOMAS SAY : early American naturalist. Foreword by L. O. HOWARD. XIV + 260 p., 27 illust. Springfield, Ill., THOMAS, 1931. ISIS

Reviewed by CHAUNCEY D. LEAKE, *Isis*, 16, 145-46, 1931.

D. — *Medical sciences*

Dawson, Warren R. The life and times of THOMAS JOSEPH PETTIGREW. *Med. Life*, 38, 1-64, 67-128, 131-36, 13 illust., 1931. ISIS

PETTIGREW (1781-1865) was an important Egyptologist, first professor of anatomy at Charing Cross Hospital, physician to English royalty, a prolific biographer (his Medical Portrait Gallery, London, 1840, 4 volumes, being especially famous), and a founder of the British Archaeological Association. Excellent account, with appended bibliography. C. D. L.

Dihle, Helene. BERNHARD CHRISTOPH FAUST und seine Zeit. *Sudhoffs Archiv für Geschichte der Medizin*, 24, 283-311, 1931. ISIS

BERNHARD CHRISTOPH FAUST, 1755-1842.

Fischer, Alphons. Theorie und Methodik der hygienischen Volksbelehrung im 19. Jahrhundert (bis zur Gründung des Reichs-Gesundheitsamtes). *Hyg. Wegweiser*, 6, 130-36, 1931. ISIS

Holländer, Eugen. J. GILLRAYS Karikatur auf die Kuhpockenimpfung (1802). *Z. ärztl. Fortbildg.*, 28, 404, 4 fig., 1931. ISIS

Justus, Ludwig. Berühmte Chirurgen des vorigen Jahrhunderts. *Med. Welt*, 5, 466-67, 5 fig., 1931. ISIS

Portraits of C. TEXTOR (1782-1860), J. CHR. JÜNGKEN (1794-1875) B. R. K. LANGENBECK (1810-1887), W. ROSER (1817-1888), and H. A. BARDELEBEN (1819-1895).

Krumbhaar, E. B. The WILLIAM WOOD GERHARD gold medal of the Philadelphia Pathological Society. *Archives of Pathology and Laboratory Medicine*, 1, 90-92, 2 figs., 1926. ISIS

WM. WOOD GERHARD, 1809-1872.

Lo Bianco, Vincenzo. Il medico di ALESSANDRO MANZONI. *Riv. stor. sci. med. e natur.*, 22, 88-91, 1931. ISIS

Apropos of ENRICO ACERBI (1785-1827).

Pincherle, Bruno. GIOVANNI MALFATTI, physician to BEETHOVEN and the DUKE OF REICHSTADT. *Medical Life*, 38, 698-714, 1931. ISIS

Rieck, Wilhelm. Fleisch- und Milchhygienisches aus einer tierärztlichen Vorlesung von 1839. *Ztschr. f. Fleisch- u. Milchhygiene*, 41, 282-83, 1931. ISIS

Rieck, Wilhelm. Tierärztliches aus einem Pfarrerleben vor 100 Jahren. Berlin, *Tierärztl. Wschr.*, 47, 126-27, 1931. ISIS

Rolleston, J. D. JEAN BAPTISTE BOUILLAUD (1796-1881). A pioneer in cardiology and neurology. *Proceedings of the Royal Society of Medicine*, 24, 1253-62, 1931. ISIS

BOUILLAUD is chiefly remembered for his description of the lining of the heart, the endocardium and its disease condition, endocarditis (1835); his formulation of the relation of rheumatism and heart disease; his early work on congenital disease of the heart; and for his identification of the anterior lobes of the brain as the seat of speech, thus anticipating BROCA by 36 years. ROLLESTON's account of both the man and his work, carefully annotated, is a valuable contribution to medical history. H. R. V.

Schoute, D. Het tijdvak DAENDELS-RAFFLES en de geneeskunde in Nederlandsch Indië. *Bijdragen tot de geschiedenis der geneeskunde*, 11, 313-22, 1931. ISIS

Seckendorf, Ernst. Nürnbergs Kampf gegen die Homöopathie vor hundert Jahren. *Med. Welt*, 5, 614-15, 1931. ISIS

Weyde, A. J. van der. Ontsmetting van goederen door hooge temperatuur omstreeks 1830. *Bijdragen tot de geschiedenis der geneeskunde*, 11, 322-24, 1931. ISIS

E. — *Alia*

Comte, A. Extraits inédits de sa correspondance avec CÉLESTIN DE BLIGNIÈRES. *Revue philosophique*, 56, 161-94, 1931. ISIS

Darmstaedter, Ernst. ACHIM VON ARNIM und die Naturwissenschaft. *Euphorion*, 32, 454-76, Stuttgart 1931. ISIS

LUDWIG ACHIM VON ARNIM (1781-1831) " hatte in sehr kurzer Zeit einen ausgezeichneten Überblick über die Naturwissenschaft seiner Zeit gewonnen und besass gute Kenntnisse auf physikalischen und chemischen Gebieten. Mit erstaunlichem Interesse und grossem Eifer studierte er die naturwissenschaftliche und zum Teil auch philosophische Literatur des In- und Auslandes, durch gute Sprachkenntnisse unterstützt, die ihm auch die Bearbeitung zahlreicher Übersetzungen ermöglichten. Dies alles, wie auch Klugheit, freier Blick und die Gabe, zu forschen und zu finden, hätte ihm sehr wahrscheinlich auch eine schöne wissenschaftliche Laufbahn gesichert, bei der ihm auch das Mass Phantasie, das nach einem schönen Ausspruch des Chemikers VIKTOR MEYER dem Forscher taugt und das ARNIM ja zu Gebote stand, nicht geschadet hätte."

Duméril, Henri. Lord MACAULAY et les Académies. *Mémoires de l'Ac. des Sc., Inscriptions et Belles-Lettres de Toulouse*, 4, 14-24, 1926. ISIS

XIXth Century (second half)

A. — *Mathematics*

Dedekind, Richard (1831-1916). Gesammelte mathematische Werke. Hrsg. von R. FRICKE, E. NOETHER, und Ö. ORE. 3 Bände. Band 2. 442 p. Braunschweig, VIEWEG, 1931. ISIS

Fraenkel, Adolf. GEORG CANTOR. 78 p. Leipzig, TEUBNER, 1930. ISIS

Reviewed by W. A. WILSON, *Bulletin of the American Mathematical Society*, 37, 809, 1931.

Kronecker, Leopold. Gesammelte Werke. Hrsg. auf Veranlassung der Preussischen Akademie der Wissenschaften von K. HENSEL. Band 3, Halbband 2. VIII + 215 p. Leipzig, TEUBNER, 1931. ISIS

B. — *Physical sciences and technology*

Färber, Eduard. EDMUND O. VON LIPPMANN zum fünfundsiebzigsten Geburtstag. (9. Januar 1932). *Die Naturwissenschaften*, 20, 25-28, 1932. ISIS

(Grubb, Sir Howard). Obituary. *Nature*, 128, 609-10, 1931. ISIS

Sir HOWARD GRUBB, 1844-1931.

Locke, L. Leland. The WARREN calculating engine. *Business Equipment Topics*, 3 p., portr., facsim., figs., October, 1931. ISIS

See *Isis*, 7, 590 and 10, 198. This is the fourth of a series of articles in *Business Equipment Topics* on early calculating machines of American invention. The first two articles appeared in the issues of June, 1922, and of March, 1925, and were concerned with the work of FRANK STEPHEN BALDWIN. The third article, which appeared in the issue of December, 1926, was on the first direct multiplication machine of RAMON VEREA, and was reviewed at considerable length in *La Revue du Bureau*. Further articles on the work of BARBOUR and of GRANT are promised for early appearance. FREDERICK PARSONS WARREN, 1839-1875. A. P.

Lowery, H. The JOULE collection in the College of Technology, Manchester. *Journ. scient. instr.*, 7, 369-78, fig., 1930. ISIS

(Maxwell, James Clerk.) The CLERK MAXWELL centenary celebrations. *Nature*, 128, 604-08, 1931. ISIS

Riesenfeld, Ernst Hermann. SVANTE ARRHENIUS. 110 p., 10 pl. (*Grosse Männer* : Studien zur Biologie des Genies, hrsg. von WILHELM OSTWALD, Band 11.) Leipzig, Akademische Verlagsgesellschaft, 1931. ISIS

Rouch, J. L'expédition ANDRÉE. *Revue générale des Sciences*, 42, 462-66, 1931. ISIS

C. — *Natural sciences*

André, G. MARCELIN BERTHELOT et la chimie végétale. *Chim. et Indust.*, 17, 673-80, Paris, 1927. ISIS

Beauverie, J. ADOLF ENGLER. *Revue générale des Sciences*, 42, 593-95, 1931. ISIS

ADOLF ENGLER, 1844-1930.

Bertrand, Marcel (1847-1907). Œuvres géologiques. Recueillies par EMM. DE MARGERIE et publiées sous les auspices de l'Académie des Sciences. Tome III. XIII + p. 1401-1946, 22 figs., 6 pl. Paris, DUNOD, 1931. ISIS

Pour les tomes I (1927) et II (1928) voir *Isis*, 11, 478 et 13, 477. Le tome III contient : la 5e partie consacrée aux régions diverses (articles ou mémoires nos. 101-131); la 6e partie, études d'ordre général et théorique (nos. 132-154); la 7e partie, notices biographiques, allocutions et rapports (nos. 155-163); un appendice contenant trois rapports sur l'attribution de prix à MARCEL BERTRAND; un index alphabétique des noms propres et des matières principales de l'ouvrage complet. A. P.

Compter, Hans. Zum 100. Geburtstage GUSTAV COMPTERS. *Beitr. z. Geol. Thüringens*, 3, 1-4, port., Jena, 1931. ISIS

GUSTAV COMPTER, 1831-1922.

Le Chatelier, H. MARCELIN BERTHELOT et les explosifs. *Chim. et Indust.*, 17, 849-51, Paris, 1927. ISIS

Matignon, C. L'œuvre de M. BERTHELOT. *Chim. et Indust.*, 16, 145-49, Paris, 1926. ISIS

Sabatier, P. M. BERTHELOT et la synthèse chimique. *Chim. et Indust.*, 17, 145-47, Paris, 1927. ISIS

Weissermel, W. Zum 100. Geburtstag von CARL OCHSENIUS. Gedenkrede. *Z. Dt. Geol. Ges.*, 82, 229-36, port., 1930. ISIS

CARL OCHSENIUS, 1830-1906.

D. — *Medical sciences*

Beeson, B. Barker. ANTON TCHÉKHOV. A resumé of his works and of his career. *Annals of Medical History*, 3, 603-18, 4 portr., 1931. ISIS

Dentz, F. Oudschans. Van slaaf tot geneesheer. *West-Indische Gids*, Juli-Augustus, 1931. ISIS

Biography of ADOLF FREDERICK GRAVENBERGH, 1811-1906. Reviewed by F. M. F. DE FEYFER, *Bijdragen tot de geschiedenis der geneeskunde*, 11, 301, 1931.

Dieudonné, A. Zur Geschichte der Ätiologie der Fleischvergiftung und des Botulismus. *Med. Welt*, 5, 796-97, 1931. ISIS

Apropos of JUSTINUS KERNER and OTTO BOLLINGER.

Ford, William Harper de. Dentistry as I found it fifty years ago. *Dental Digest*, 37, 175-76, 249-51, 311-13, 1931. ISIS

(Laveran, Ch. L. Alphonse). La découverte de LAVERAN. Constantine 6. novembre 1880. By EDM. SERGENT, ET. SERGENT, L. PARROT. 48 p., 22 pl. (Collection du Centenaire de l'Algérie.) Paris, MASSON, 1929. ISIS

Lusk, Graham. CARL VON VOIT, master and friend. *Annals of Medical History*, 3, 583-94, 7 fig., 1 portr., 1931. ISIS

MacCallum, William George. WILLIAM STEWART HALSTED, surgeon

XVIII + 241 p., 15 pl. Baltimore, The Johns Hopkins Press, 1930. ISIS

Reviewed by CHARLES A. KOFOID, *Isis*, 16, 146-48, 1931.

Scovil, Elisabeth Robinson. Personal recollections of FLORENCE NIGHTINGALE. *Annals of Medical History*, 3, 677-78, 1931. ISIS

E. — *Alia*

Legiardi-Laura, C. On the fiftieth anniversary of LOMBROSO's "Archivio." *Medical Life*, 38, 591-98, portr., facsim., 1931. ISIS

Petrie, Sir Wm. M. Flinders. Seventy years in archaeology. VIII + 284 p., 26 pl. London, LOW, MARSTON, 1931. ISIS

XXth Century

A. — *Mathematics*

Bortolotti, Ettore. Elenco delle pubblicazioni nel 41° anno di insegnamento, 2 novembre 1891—2 novembre 1931. 16 p. port. Bologna, Società Tipografica, 1931. ISIS

Autobibliography, with preface, of 154 items published since 1889. A.P.

Ocagne, Maurice d'. Avec EMILE PICARD. Quelques vues sur la science. *Revue générale des Sciences*, 42, 449-51, 1931. ISIS

Article publié dans *Figaro* du 19 juillet 1931.

B. — *Physical sciences and technology*

Collard, A. Un astronome français, PIERRE PUISEUX (1855-1920). *Ciel et Terre*, 47, 14-24, 60-68, 1931. ISIS

Langevin, P. L'œuvre d'EINSTEIN et l'astronomie. *L'Astronomie*, 45, 277-97, 1931. ISIS

C. — *Natural sciences*

(**Braun, Maximilian**, 1850-1930). By L. SZIDAT. *Zbl. Bakter. Abt.* I, 119, 161-64, port., 1930. ISIS

(**Keller, Conrad**, 1848-1930). By MAX KÜPFER. *Verh. Schweiz. Naturf. Ges.*, 111, 465-79, port., 1930. ISIS

Schuchert, Charles. GEORGE PERKINS MERRILL (1854-1929). *Annual Report of the Smithsonian Institution*, 617-34, portr., 1930. ISIS

A more detailed sketch of Doctor MERRILL, accompanied by a complete bibliography, will be found in the *Bulletin of the Geological Society of America*, 42, 1931.

Swanton, John R.; Roberts, F. H. H., jr. JESSE WALTER FEWKES. *Annual Report of the Smithsonian Institution*, 609-16, portr., 1931. ISIS

JESSE WALTER FEWKES, 1850-1930. This article is expanded from one by JOHN R. SWANTON published in *Science*, 72, 5-7, 1930.

D. — *Medical sciences*

(Castiglioni, Arturo.) Bibliography of ARTURO CASTIGLIONI. *Medical Life*, 38, 722-24, 1931. ISIS

Fargin-Fayolle, P. CHARLES CAPDEPONT (1867-1917); l'homme, l'œuvre. *Revue de stomatol.*, 33, 65-85, 1931. ISIS

(Marmasse, Albert Ansaloni.) Dr. ALBERT ANSALONI MARMASSE, 1860-1930. *Gazette médicale du Centre*, 35, I-V, 1930. ISIS

Zeiss, Heinz. MICHAEL LACHTIN : Dem Russischen Medizinhistoriker zum Andenken. *Janus*, 35, 281-96, 1931. ISIS

Biography, bibliography, and portrait of MICHAIL JURJEWITSCH LACHTIN (1869-1930), one of the few Russian historians of medicine. C. D. L.

E. — *Alia*

Roerich, Georges de. Professor CHARLES ROCKWELL LANMAN and his work in the field of Indology. *Journal of Urusvati* (Himalayan Research Institute, Roerich Museum, New York), 1, 1-6, portr., 1931. ISIS

PART II

HISTORICAL CLASSIFICATION

Including only the items which could not be included in Part I—the fundamental (centurial) classification. Hence a student of Muslim science, for example, should not peruse simply the notes collected below under the heading "Islam," he should examine as well those included above under the headings VIIth century, VIIIth century, etc.

I. ANTIQUITY

1. — ANTIQUITY (*generalities*)

Bernhard, Oscar. Über Tiere Afrikas auf griechischen und römischen Münzen. *Schweiz. Numismat. Rdsch.*, 25, 5-35, 5 pl., 1930. ISIS

Burn, Andrew Robert. Minoans, Philistines, and Greeks, 1400-900 B.C. XVI + 274 p., 16 pl., 2 maps. London, KEGAN PAUL, 1930. ISIS

Reviewed by A. J. B. WACE, *Antiquity*, 5, 381, 1931.

Contenau, Georges ; Chapot, V. L'art antique, Orient-Grèce-Rome. 432 p., 314 illus., 3 maps. (Vol. 1 de l'*Histoire universelle des arts des temps primitifs jusqu'à nos jours*, publiée sous la direction de LOUIS RÉAU.) Paris, COLIN, 1930. ISIS

Reviewed by DINA PORTWAY DOBSON, *Antiquity*, 5, 387, 1931.

Fairclough, Henry Ruchton. Love of nature among the Greeks and Romans. IX + 270 p. (Our debt to Greece and Rome ; editors G. D. HADZITS... D. M. ROBINSON, vol. 37). London, HARRAP, 1930. ISIS

Gardiner, Edward Norman. Athletics of the ancient world. X + 246 p., 216 illus. Oxford, University Press, 1930. ISIS

Reviewed by P. GARDNER, *Antiquity*, 5, 376-77, 1931.

Peake, Harold. The flood : new light on an old story. X + 124 p., 11 fig. London, KEGAN PAUL, 1930. ISIS

Reviewed by G. CONTENAU, *Antiquity*, 5, 270, 1931.

Rostovtzeff, Mikhail Ivanovich. A history of the ancient world. Vol. 1. The Orient and Greece, translated by J. D. DUFF. 2nd edition. XII + 418 p., 36 fig., 90 pl. Oxford, University Press, 1930. ISIS

Reviewed by G. CONTENAU, *Antiquity*, 5, 265, 1931.

2. — EGYPT

Boussac, P. Hippolyte. Le royaume d'Osiris. *Revue générale des Sciences*, 42, 642-52, 1931. ISIS

Budge, Sir Ernest Alfred Wallis. The Rosetta stone in the British

Museum ; the Greek demotic and hieroglyphic texts of the decree described on the Rosetta Stone conferring additional honours on PTOLEMY V EPIPHANES (203-181 B.C.) with English translations and a short history of the decipherment of the Egyptian hieroglyphs, and an appendix containing translations of the stelae of Ṣân (Tanis) and Tall al-Maskhûṭah. VIII + 325 p., 22 pl. London, Religious Tract Society, 1929. ISIS

Reviewed by G. S. C. COOKE, *Antiquity*, 5, 377, 1931.

Calderini, Aristide. Intorno al " Dizionario dei nomi geografici e topografici dell' Egitto greco-romano." *Chronique d'Egypte*, 360-62, 1931. ISIS

Cazemier, Lukas Jan. Oud-egyptiese voorstellingen aangaande de ziel. 135 p. Wageningen, VEENMAN, 1930. ISIS

Reviewed by G. ROEDER, *DLZ*, 2, 1873-74, 1931.

Capart, Jean. Les aventures de HORUS et de SETH. *Bull. de la classe des lettres de l'Acad. royale de Belgique*, 17, 411-27, 1931. ISIS

Černy, Jaroslav. Les ostraca hiératiques, leur intérêt et la nécessité de leur étude. *Chronique d'Egypte*, 6, 212-24, 3 fig., 1931. ISIS

Davies, Norman De Garis. The tomb of ḲEN-AMŪN at Thebes. With plates in colour by NORMAN DE GARIS DAVIES, H. R. HAPGOOD, and NINA DE GARIS DAVIES (*Publications of the Metropolitan Museum of Art Egyptian Expedition*, ed. by A. M. LYTHGOE, vol. V). Two volumes. Vol. I., x + 70 p., 70 pl. Vol. II., plates. New York, Metropolitan Museum of Art, 1930. ISIS

Duthuit, Georges. La sculpture copte, statues, bas-reliefs, masques. 80 p., 72 pl. Paris, VAN OEST, 1931. ISIS

Garry, J. Gerald. Egypt : the home of the occult sciences with special reference to IMHOTEP, the mysterious wise man and Egyptian god of medicine. IV + 93 p. London, BALE and DANIELSSON, 1931. ISIS

Reviewed by SUDHOFF, *Mitteilungen zur Geschichte der Medizin und der Naturwissenschaften*, 30, 262, 1931 ; in *Annals of Medical History*, 3, 686, 1931.

Grande, Carlo del. Intorno ai papiri musicali scoperti in Egitto. *Chronique d'Egypte*, 6, 441-55, 1931. ISIS

Hohlwein, Nicolas. L'économie égyptienne. *Chronique d'Egypte*, 6, 225-33, 1931. ISIS

Keimer, L. L'égyptologie et les sciences naturelles. *Chronique d'Egypte*, 6, 306-11, 1931. ISIS

Lefort, L. Th. La littérature égyptienne aux derniers siècles avant l'invasion arabe. *Chronique d'Egypte*, 6, 315-23, 1931. ISIS

Meyerhof, Max. Über den Papyrus Edwin Smith, das älteste Chirurgiebuch der Welt. *Deutsche Zeitschrift für Chirurgie*, 231, 645-90, 7 fig., 1931. ISIS

Elaborate discussion of early Egyptian surgery apropos of BREASTED's edition of the Edwin Smith papyrus (Chicago, 1930), of which a long review appeared in *Isis*, 15, 355-67. MEYERHOF concludes : " Dieser Papyrus wirft ein ganz neues Licht auf die ärztlichen Kenntnisse und das Denken der alten Ägypter. Wir begegnen hier zum ersten Male der Erwähnung des Gehirns, seiner Häute, seiner Pulsation, der Erkenntnis des Zusammenhanges zwischen Schädel- und Wirbelsäulenverletzungen einerseits und Extremitätenlähmungen andererseits, der Kenntnis von Fieber, Wundinfektion, meningitischen und tetanischen Symptomen, sowie einer Reihe von therapeutischen Massnahmen, welche durch die Jahrtausende im Heilschatz der Ärzte verblieben sind (Wundnaht, Tamponade, offene Wundbehandlung, Einrenkung von Luxationen, Einrichtung von Knochenbrüchen usw.). Der Berichterstatter tritt der Auffassung von BREASTED bei, dass hier die Anfänge wissenschaftlichen Denkens in der Medizin zu erkennen seien."

Peet, Thomas Eric. A comparative study of the literatures of Egypt, Palestine, and Mesopotamia. Egypt's contribution to the literature of the ancient world. VII + 136 p. (The Schweich Lectures of the British Academy, 1929). Oxford, University Press, 1931. ISIS

Peet, T. Eric. A problem in Egyptian geometry. 1 pl. *Journ. of Egypt. Arch.*, 17, 100-06, 1931. ISIS

Pillet, Maurice. De l'érection des obélisques. *Chronique d'Egypte*, 6, 294-305, 5 fig., 1931. ISIS

Pirenne, Jacques. L'égyptologie et l'histoire de la civilisation humaine. *Chronique d'Egypte*, 6, 201-11, 1931. ISIS

Pogo, A. Zum Problem der Identifikation der nördlichen Sternbilder der alten Aegypter. *Isis*, 16, 102-14, 3 figs., 1931. ISIS

Apropos of the astronomical part of REBEKKA ALEIDA BIEGEL's thesis, Zürich 1921, *Zur Astrognosie der alten Ägypter*.

Ranke, Hermann. Vom Geschichtsbilde der alten Aegypter. *Chronique d'Egypte*, 6, 277-86, 1931. ISIS

Sethe, K. The Rhind mathematical papyrus. *Jber. d. Mathem. Ver.*, 40, 62-67, 1931. ISIS

Sloley, R. W. Primitive methods of measuring time, with special reference to Egypt. 19 figs., 7 pl. *The Journal of Egyptian Archaeology*, 17, 166-78, 1931. ISIS

Struve, W. W. Mathematischer Papyrus des Staatlichen Museums der schönen Künste in Moskau, hrsg. und kommentiert von W. W. STRUVE, unter Benutzung einer hieroglyphischen Transkription von B. A. TURAJEFF. 12+198 p., 10 pl. (*Quellen und Studien zur Geschichte der Mathematik*, Abt. A : Quellen, vol. 1) Berlin, SPRINGER, 1930. ISIS

Reviewed by R. C. ARCHIBALD, *Isis*, 16, 148-55, 1931; by KURT VOGEL, *DLZ*, 2, 1959-61, 1931; by T. E. PEET, *Journ. Egypt. Arch.*, 17, 154-60, 1931.

Thomas, W. R. Moscow mathematical papyrus, no. 14. *The Journ. of Egypt. Arch.*, 17, 50-52, 1931. ISIS

Vogel, Kurt. Der Moskauer mathematische Papyrus. *Arch. Gesch. Math., Nat. u. Techn.*, 13, 446-61, 1931. ISIS

Weynants-Ronday, Mme. L'égyptologie et l'ethnographie. *Chronique d'Egypte*, 6, 244-50, 1931. ISIS

Zinner, Ernst. Die Sternbilder der alten Aegypter. *Isis*, 16, 92-101, 1931. ISIS

3. — BABYLONIA AND ASSYRIA

Bord, Benjamin. La médecine chaldéo-assyrienne à propos d'un livre sur Nabuchodonosor. *Aesculape*, 21, 141-44, 4 fig., 1931. ISIS

Apropos of G. R. TABOUIS " Nabuchodonosor et le triomphe de Babylone " (Paris, PAYOT, 1931).

Furlani, Giuseppe. La religione babilonese e assira. Vol. II : I miti e la vita religiosa. x + 434 p. (*Storia delle religioni* a cura di RAFFAELE PETTAZZONI. Vol. IX). Bologna, ZANICHELLI, 1929. ISIS

Reviewed by BRUNO MEISSNER, *DLZ*, 2, 2113-15, 1931.

San Nicolò, Mariano. Beiträge zur Rechtsgeschichte im Bereiche

der keilschriftlichen Rechtsquellen. XIV + 273 p., 9 pl. (*Inst. f. sammenlignende Kulturforskning*. Serie A : Forelesninger. XIII.) Oslo, ASCHEHOUG, 1931. ISIS

Reviewed by G. EISSER, *DLZ*, 2, 2244-47, 1931.

Van Buren, Mrs. **E. Douglas.** Clay figurines of Babylonia and Assyria. LXIX + 287 p., 68 pl. (*Yale Oriental series*, Researches, XVI). New Haven, Yale University Press, 1930. ISIS

Reviewed by GEORGES DE ROERICH, *Journal of Urusvati* (Himalayan Research Institute, Roerich Museum, New York), 1, 93-94, 1931.

4. — GREECE

Cloché, Paul. Les classes, les métiers, le trafic. (*La vie publique et privée des anciens Grecs*. Tome V). VII + 127 p., 40 pl., 37 fig. Paris, Les Belles Lettres, 1931. ISIS

Reviewed by A. MERLIN, *Journal des Savants*, 425-26, 1931.

Frazer, Sir **James G.** ; **Buren, A. W. van.** Graecia antiqua : maps and plans to illustrate " PAUSANIAS's description of Greece " ; compiled by Sir JAMES G. FRAZER, with explanatory text by A. W. VAN BUREN. XII + 162 p., 35 maps. London, MACMILLAN, 1930. ISIS

Reviewed in *Antiquity*, 5, 257, 1931.

Gerstinger, Hans ; **Vogel, Kurt.** Eine stereometrische Aufgabensammlung im Papyrus Graecus Vindobonensis 19996. (*Griechische Literarische Papyri* I. Bearb. von HANS GERSTINGER, HANS OELLACHER, KURT VOGEL). *Mitteilungen aus der Papyrussammlung der Nationalbibliothek in Wien* (Papyrus Erzherzog Rainer), Neue Serie, I. Folge, 11-76, ill., 1932. ISIS

Heath, Sir **Thomas L.** A manual of Greek mathematics. XVI + 552 p., 2 fig. Oxford, University Press, 1931. ISIS

Reviewed by GEORGE SARTON, *Isis*, 16, 450-51, 1931.

Preisendanz, Karl. Das Studium der griechischen Zauberpapyri. *Chronique d'Egypte*, 6, 456-59, 1931. ISIS

5. — ROME

Emanuelli, Pio. L'astronomia in Roma. *Mem. Soc. astron. ital.*, 5, 245-49, 1931. ISIS

Germania, Romana : ein Bilder-Atlas. 2nd edition. In ten parts. 240 p., 208 pl. Bamberg, BUCHNER, 1924-30. ISIS

Reviewed by GEORGE MACDONALD, *Antiquity*, 5, 263, 1931.

Sudhoff, Karl. Römische Stützschiene für einen kranken Unterschenkel, gefunden an der Mosel. *Sudhoffs Archiv für Geschichte der Medizin*, 24, 271-82, 1 fig., 1931. ISIS

II. MIDDLE AGES

6. — MIDDLE AGES (*generalities*)

Brögger, Anton Wilhelm. Den Norske bosetningen paa Shetland-Orknöyene. Studier og resultater. 290 p., 151 fig. (*Skrifter utgitt av det Norske Videnskaps-Akademi i Oslo*. II. Hist.-Filos. Klasse, 1930, no. 3.) Oslo, DYBWAD, 1930. (English summary). ISIS

Reviewed by HUGH MARWICK, *Antiquity*, 5, 258-59, 1931.

Cohen, Gustave. Le théâtre en France au Moyen-Age : II, Le théâtre profane. 60 pl. Paris, RIEDER, 1931. ISIS

Dupont-Ferrier, Gustave. Etudes sur les institutions financières de la France à la fin du Moyen-Age. Tome premier. Les élections et leur personnel. Paris, DIDOT, 1930. ISIS

Reviewed by ED. MEYNIAL, *Journal des Savants*, 449-63, 1931.

Farmer, Henry George. Music in mediaeval Scotland. With an introduction by Sir RICHARD R. TERRY. 23 p., 4 pl. London, REEVES, 1931. ISIS

The beginnings (563-1124). The Anglo-Norman period (1124-1424). The Golden Age (1424-1542).

Fischer, Hermann. Neuentdeckte mittelalterliche Herbarien in Münchener Bibliotheken. *Mitteilungen der Bayer. Botan. Gesellschaft* in München, 4, 112-15, 3 pl., 1928. ISIS

Laistner, Max Ludwig Wolfram. Thought and letters in Western Europe, A.D. 500-900. London, METHUEN, 1931. ISIS

Merkel, Felix. Das Aufkommen der deutschen Sprache in den städtischen Kanzleien des ausgehenden Mittelalters. 77 p. (*Beiträge z. Kulturgesch. d. Mittelalt. u. d. Renaissance*. Hrsg. v. WALTER GOETZ. Bd. 45.) Leipzig, TEUBNER, 1930. ISIS

Reviewed by PAUL REHME, *DLZ*, 2, 2241-43, 1931.

Olschki, Leonardo. Die romanischen Literaturen des Mittelalters.

260 p., 187 fig., 7 pl. (*Handbuch d. Literaturwiss.* Hrsg. v. O. WALZEL unt. Mitwirkg. v. anderen.) Potsdam, Athenaion, 1928. ISIS

Reviewed by ADALBERT HÄMEL, *DLZ*, 2, 2459-61, 1931.

Salzman, Louis Francis. English trade in the Middle Ages. XII + 464 p. Oxford, University Press, 1931. ISIS

Reviewed by W. E. LUNT, *American Historical Review*, 37, 150, 1931.

Sudhoff, Carlo. Glorie della medicina italiana nel medioevo. *Riv. stor. sci. med. e natur.* 22, 1-7, 1931. ISIS

Thorndike, Lynn. Prospectus for a corpus of medieval scientific literature in Latin. *Isis*, 16, 447, 1931. ISIS

Wegener, Hans. Beschreibendes Verzeichnis der deutschen Bilderhandschriften des späten Mittelalters in der Heidelberger Universitäts-Bibliothek. VII + 118 p. Leipzig, WEBER, 1927. ISIS

Reviewed by ARTHUR BURKHARD, *Speculum*, 6, 637-39, 1931.

III. ORIENTAL SCIENCE AND CIVILIZATION

8. — ASIA

Western Asia

Lewy, Julius. Die Kültepetexte aus der Sammlung FRIDA HAHN, Berlin. Hrsg., übers. u. erkl. v. JULIUS LEWY. X + 54 p., 24 pl. Leipzig, HINRICHS, 1930. ISIS

Reviewed by B. HROZNÝ, *DLZ*, 2, 2168-69, 1931.

Central Asia

Hedin, Sven. Across the Gobi Desert. XXII + 402 p., 67 pl. London, ROUTLEDGE, 1931. ISIS

Lattimore, Owen. The desert road to Turkestan. XV + 373 p. Boston, LITTLE, BROWN, 1929. ISIS

Reviewed by GEORGES DE ROERICH, *Journal of Urusvati* (Himalayan Research Institute, Roerich Museum, New York), 1, 96-99, 1931.

Roerich, Georges de. Problems of Tibetan archaeology. *Journal of Urusvati* (Himalayan Research Institute, Roerich Museum, New York), 1, 27-34, 1931. ISIS

Roerich, George Nicholas. Trails to inmost Asia; five years of exploration with the Roerich Central Asian expedition. Preface by LOUIS MARIN. xx + 504 p., front., pl., ill. New Haven, Yale University Press, 1931. ISIS

Trinkler, Emil. The stormswept roof of Asia. By yak, camel, and sheep caravan in Tibet, Chinese Turkestan and over the Kara-Koram. 312 p. London, SEELEY, SERVICE, 1931. ISIS

Waley, Arthur. A catalogue of paintings recovered from Tun-Huang by Sir AUREL STEIN, preserved in the Sub-department of Oriental reprints and drawings in the British Museum and in the Museum of Central Asian Antiquities. London, British Museum, 1931. ISIS

Eastern Asia

(Including works relative to the whole of Buddhist Asia, or to India, Central, and Eastern Asia combined.)

David-Neel, Alexandra. Initiations and initiates in Tibet. Translation by FRED ROTHWELL. 224 p. London, RIDER, 1931. ISIS

Hedin, Sven. Rätsel der Gobi, die Fortsetzung der grossen Fahrt durch Innerasien in den Jahren 1928-1930. IX + 335 p., 74 fig., 2 maps. Leipzig, BROCKHAUS, 1931. ISIS

Reviewed by VORWAHL, *Mitteilungen zur Geschichte der Medizin und der Naturwissenschaften*, 30, 294, 1931.

9. — INDIA

Cūlavaṃsa, being the more recent part of the Mahāvaṃsa. Part II. Translated by W. GEIGER, and from the German into English by Mrs. C. MABEL RICKMERS. XXXIV + 366 p. (*Pali Text Society, translation series*, no. 20.) Oxford, University Press, 1930. ISIS

Reviewed by E. J. THOMAS, *Journal of the Royal Asiatic Society*, 948-50, 1931.

Edgerton, Franklin. The elephant-lore of the Hindus. The elephant-sport (Matanga-lila) of NILAKANTHA. Translated from the original Sanskrit, with introduction, notes, and glossary, by FRANKLIN EDGERTON. New Haven, Yale University Press, 1931. ISIS

Eliade, Mircea. Cunoștințele botanice in vechea Indie. Cu o nota

introductiva asupra migrației plantelor indiene in Iran și China. *Bulletin de la Société des Sciences de Cluj*, 6, 221-37, 1931 (in Rumanian). ISIS

Abstract in English, entitled : Plants and plant-life as understood by the ancient Hindus. " This paper is an attempt to collect and interpret the data of ancient Indian botanical lore. The author discusses the Sanskrit and Prakrit nomenclature of plants, and this ancient taxonomy proves a very keen gift of observation and rich suggestive power. The Hindu classification of plants is similar to that of the European botanist before LINNAEUS, being grounded on the essential features of the plants. Some truths concerning the physiology of the vegetable realm had been known in India from the Vedic age, as for instance : the diurnal and nocturnal movements of plants, assimilation and circulation of sap, respiration, sensibility, sleep, the importance of the solar rays in the growth of plants, etc. Reference to the sexuality and consciousness of plants are to be met with in a great number of treatises and commentaries. The majority of these botanical truths have been discovered empirically, and do not prove a systematic and scientific process, but rather an intuitive and pragmatical knowledge. The identity of the human being with the vegetable realm is emphasized in the Jaina Sutras. The author quotes texts from *Ākārānga Sutra*, which have escaped the attention of the previous writers on the subject. The unity of the organic world is a leit-motif of Indian speculation, and it is patent even in the scientific works. It is worth knowing that the actual researches and discoveries of Sir JAGADIS BOSE have been known, intuitively, twenty five centuries ago. The author finds traces of the first systematic interpretation of nature in the Jaina Sutras, and discusses the botanical fragments of Indian literature from MASHKARIN GOSHALA (VI B.C.) until the medieval Hindu, Jain and Buddhist commentators."

Masani, M. R. P. Le folklore des puits dans l'Inde et spécialement à Bombay. Traduit de l'anglais par LOUISE MORIN. *Revue de l'histoire des religions*, 104, 221-71, 1931. ISIS

Abridged translation of *Folklore of wells, being a study of water worship in East and West*. XXVI + 131 p. Bombay, Taraporevala, 1918.

Maung Tin, Pe. The path of purity, being a translation of BUDDHAGHOSA's Visuddhimagga. Part III. Of understanding. With an epilogue by Mrs. RHYS DAVIDS. VIII + 404 p. (*Pali Text Society, translation series*, no. 21.) Oxford, University Press, 1931. ISIS

Reviewed by E. J. THOMAS, *Journal of the Royal Asiatic Society*, 948-50, 1931.

Müller, Reinhold F. G. Die Harnruhr der Alt-Inder, Prameha (unter besonderer Berücksichtigung der Carakasaṃhitā). *Sudhoffs Archiv für Geschichte der Medizin*, 25, 1-42, 1932. ISIS

Randle, Herbert Niel. Indian logic in the early schools. Oxford, University Press, 1930. ISIS

Reviewed by W. STEDE, *Journal of the Royal Asiatic Society*, 906, 1931.

Stein, Sir Aurel. An archaeological tour in Gedrosia. With an appendix by R. B. SEWELL and B. S. GUHA. 211 p., 46 pl. (*Memoirs of the Archaeology Survey of India*, no. 43.) Calcutta, Government of India Central Publication Branch, 1931. ISIS

Vogel, Jean Philippe. La sculpture de Mathura. 131 p., 60 pl. (*Ars asiatica* ; études et documents pub. par V. GOLOUBEW, XV). Paris, VAN OEST, 1930. ISIS

Reviewed by J. V. S. WILKINSON, *Journal of the Royal Asiatic Society*, 895-97, 1931.

10. — CHINA

Boerschmann, Ernst. Die Baukunst und religiöse Kultur der Chinesen. Einzeldarstellungen auf Grund eigener Aufnahmen während dreijähriger Reisen in China. Band III : Pagoden. Pao tá. Erster Teil. 428 p., 514 ill., 10 pl. Berlin, DE GRUYTER, 1931. ISIS

Gardner, Charles S. A union list of selected Western books on China in American libraries. Compiled by CHALRES S. GARDNER. IX + 48 p. Washington, American Council of Learned Societies, 1932. ISIS

" The chief aim in compiling the present list has been to include the greater number of those books which are now most valuable to serious students of China and things Chinese, while leaving upon one side most of the numerous missionary publications of the 17th and 18th centuries and also the deluge of recent books upon the activities and status of westerners in China. In the field of art, books which contain significant illustrations are cited in default of illuminating texts. Works by Japanese scholars are in principle excluded, not from failure to recognize their importance, but from a desire to represent them more adequately than is here feasible." " An effort has been made to cite, in connection with the titles of the present select list, all worthwhile reviews which have appeared in those few specialized periodicals which are listed at its close. Notices which have appeared in the *Chinese Repository* and *China Review*, and in the *Journal of the Royal Asiatic Society* and *Journal Asiatique* prior to 1893, are omitted in the belief that they in general belong to an earlier epoch in Chinese studies. On the other hand a certain number of reviews have been cited from various journals which make no profession of specialization in Sinology."

" It should be remarked that the present indication of holdings by American libraries cannot be considered complete. Numerous librarians have indicated their intention to utilize the list as a basis for accessions. The authorities

of the Library of Congress and the libraries of Harvard, Columbia, and Duke Universities have expressed the intention to acquire all listed books not already on their shelves." The union list contains 277 titles, 262 of books, and 15 of periodicals. Of these, 121 books and 7 periodicals can be found in the McGill Univ. libraries. The geographical distribution of the holdings in the United States is of interest. Among the 13 listed libraries in the East, six have at least 230 of the 277 titles of the union list, while three more libraries have at least 120 items. Of the 16 libraries in the Middle West, one has more than 200 titles, and four have more than 100 each. In the West, of the 9 libraries listed, one has more than 240 titles of the union list, while two others hold at least 110 items each. The union list is arranged by subjects. There is an alphabetical index of authors.

A. P.

Résillac-Roese, R. de. The Gest Chinese Research Library, McGill University, Montreal, Canada. 10 p. (mimeographed). 1931. ISIS

" By October 1st, 1931, the collection had increased to more than 116,000 ts'ê (volumes), selected and purchased by Mr. GEST's personal representative and collaborator of the Library in Peking, Captain I. V. GILLIS, formerly Naval Attaché of the United States Legation at Peking, who, thanks to his long residence in China, and his wide acquaintance with prominent Manchu and Chinese families was offered exceptional opportunities for the acquisition of rare and old editions, so that, excepting for a few modern works bought from Peking and Shanghai bookstores, all the works in the collection were formerly owned by Manchu princes, well-known Chinese statesmen, and bibliophiles." " The Library is well equipped for research work and is especially strong in dictionaries (870 ts'ê), historical works (9,887, ts'ê), catalogues (950 ts'ê), medical works (2,010 ts'ê), ts'ung shu (8,250 ts'ê), encyclopaedias (8,670 ts'ê), Buddhist works (10,953 ts'ê), and collective works of belles-lettres (5,150 ts'ê). The Library contains more than 500 Ming editions of secular works, 56 palace or imperial editions, nearly 10,000 fasciculi of Buddhist scriptures in print or manuscript of the Sung, Yüan and Ming periods, etc. Besides its rarities the Library contains a solid foundation of the essentially important works in excellent editions in virtually all major fields of study." All books are bound in Chinese style. Four different sets of index cards have been prepared.

11. — JAPAN

Hayashi, Tsuruichi. On the combinatory analysis in the old Japanese mathematics. *Tôhoku math. J.*, 33, 328-65, 1931. ISIS

Hayashi, Tsuruichi. On the treatment of integers and fractions in the old Japanese mathematics. *Tôhoku math. J.*, 33, 292-327, 1931. ISIS

Wedemeyer, André. Japanische Frühgeschichte : Untersuchungen zur Chronologie und Territorialverfassung von Alt-Japan bis zum

2. Jahrh. n. Chr. XVI + 346 p., 3 maps. (Tokyo, *Deutsche Gesellschaft für Natur- und Völkerkunde Ostasiens*). Leipzig, Asia Major, 1930. ISIS

Reviewed by FLORENCE AYSCOUGH, *Journal of the Royal Asiatic Society*, 930-32, 1931.

12. — ISRAEL

Buber, Martin. Jewish mysticism and the legends of Baalshem. Being a section of his work entitled " Die chassidischen Bücher." Translated from the German by LUCY COHEN. XXIV + 230 p. London, DENT, 1931. ISIS

Canaan, Taufik. Dämonenglaube im Lande der Bibel. V + 64 p. Leipzig, HINRICHS, 1929. ISIS

Reviewed by T. G. PINCHES, *Journal of the Royal Asiatic Society*, 928-30, 1931.

Kraus, Samuel. Geschichte der jüdischen Aerzte, vom frühesten Mittelalter bis zur Gleichberechtigung. Preisgekrönte Arbeit. Wien, PERLES, 1930. ISIS

Reviewed by F. M. G. DE FEYFER, *Bijdragen tot de geschiedenis der geneeskunde*, 11, 278, 1931.

Strack, Hermann Leberecht, *ed.* Talmud Babylonicum (Codex Hebr. Monacensis 95). Edidit praefatione necnon paginarum argumentis instruxit HERMANN L. STRACK. 3 vol. Leipzig, FOCK, 1931. ISIS

13. — IRAN

Osten, Hans Henning von der. The ancient seals from the near East in the Metropolitan Museum. *The Art Bulletin*, 13, 221-41, 4 pl., 1931. ISIS

Pavry, Bapsy. The heroines of ancient Persia. Stories retold from the Shâhnâma of FIRDAUSI. XI + 111 p. Cambridge, University Press, 1930. ISIS

Pavry, Cursetji Erachji. Iranian studies. XXII + 239 p. Bombay, Captain Printing Works, 1927. ISIS

Sakisian, Arménag Bey. La miniature persane du XIIe au XVIIe siècle. 175 p., 106 pl. Paris, VAN OEST, 1929. ISIS

Reviewed by LUDWIG BACHHOFER, *DLZ*, 1776-79, 1929.

14. — ISLAM

Hautecoeur, Louis ; Wiet, Gaston. Les mosquées du Caire. 2 vols. vol. 1, text, 360 p. ; vol. 2, 248 pl. Paris, LEROUX, 1931. ISIS

Issa bey, Ahmed. Histoire des bimaristans (hôpitaux) à l'époque islamique. Discours prononcé au Congrès International de médecine tropicale et d'hygiène tenu au Caire, Décembre 1928. p. 81-209, 7 fig. Cairo, BARBEY, 1928. ISIS

New edition of this important memoir reviewed in *Isis*, 14, 535. See also SARTON's *Introduction*, 2, 86, 95, 245-47.

Le Strange, Guy. The lands of the Eastern Caliphate : Mesopotamia, Persia, and Central Asia ; from the Moslem conquest to the time of Timur. 2nd impression. 536 p., 10 maps. Cambridge, 1930. ISIS

Reviewed in *Antiquity*, 5, 136, 1931. First ed., 1905.

Schacht, Joseph. Der Islam mit Ausschluss des Qor'āns. Second enlarged edition. XII + 196 p. (*Religionsgeschichtliches Lesebuch*, hrsg. von ALFRED BERTHOLET.) Tübingen, MOHR, 1931. ISIS

Reviewed by R. A. NICHOLSON, *Journal of the Royal Asiatic Society*, 942-45, 1931.

PART III

SYSTEMATIC CLASSIFICATION

Including only the material which could not be included in Parts I and II. Hence studies on Japanese astronomy or on XIIIth century astronomy are not classified below under astronomy, but above, respectively under Japan (in Part II) and XIIIth century (in Part I).

The sections forming Part III are classified as follows :

I. *Science in general :* 15. Bibliography; 16. History; 17. Organization; 18. Philosophy.

II. *Formal sciences* (Knowledge of forms) : 19. Logic and Theory of Knowledge; 20. Mathematics; 21. Statistical methods.

III. *Physical sciences* (Knowledge of inorganic nature) : 22. Mechanics; 23. Astronomy; 24. Physics; 25. Chemistry (physico-chemistry, industrial chemistry); 26. Technology.

IV. *Biological sciences* (Knowledge of organic nature) : 27. Biology (generalities, " natural history "); 28. Botany (agronomy, phytopathology, palaeobotany); 29. Zoology.

V. *Sciences of the earth* (Implying knowledge of both organic and inorganic nature) : 30. Geodesy; 31. Geography and Oceanography; 32. Geology,

Mineralogy, Palaeontology, Mining; 33. Meteorology, Climatology, and Terrestrial Physics.

VI. *Anthropological and historical sciences* (Knowledge of man, past and present): 34. Anatomy; 35. Physical anthropology (anthropometry and races of man); 36. Physiology (human and comparative); 37. Psychology (human and comparative); 38. Archaeology (generalities, methods); 39. Prehistory; 40. Ethnology (primitive and popular science); 41. Superstition and Occultism.

42. Economics (economic doctrines and history; commerce; transportation and communications); 43. Sociology, Jurisprudence and Positive polity; 44. History of Civilization (general history, historical methods, biography and chronology); 45. History of Art (art and science; iconography; arts and crafts); 46. History of Language, Writing and Literature; 47. History of Morals (moral organization of society); 48. History of Philosophy; 49. History of Religion (science and religion).

VII. *Medicine:* 50. History, organization and philosophy of Medicine; 51. Epidemiology, History of special diseases. Public health and Social medicine; 52. History of hospitals and of medical teaching; 53. Pharmacy, Pharmacology, Toxicology.

VIII. *Education* (The methods of accumulating, imparting and diffusing knowledge): 54. Education (generalities, methods, colleges, universities); 55. Academies, Societies, Congresses. National and international organization of science; 56. Bibliography (methods, libraries); 57. Museology (museums and collections).

IX. 58. Alia; 59. Errata.

The applied sciences are not disconnected from the pure sciences, but, as far as possible, the principles and applications of science are considered in the same section. However, applications based upon the principles of many sciences are dealt with separately (e.g. technology; medicine; education).

I. SCIENCE IN GENERAL

16. — HISTORY OF SCIENCE

(British Association.) The advancement of science, 1931. Addresses delivered at the Centenary Meeting of the British Association for the Advancement of Science. London, September 23-30, 1931. London, British Association. ISIS

British Museum (Natural History), 1931. Special guide no. 9: a short history of the collections. XI + 62 p. London, British Museum (Natural History), 1931. ISIS

Conger, George Perrigo. A world of epitomizations: a study in the philosophy of the sciences. XIV + 605 p. Princeton, University Press, 1931. ISIS

(Congrès International des Sciences Historiques.) Section d'His-

toire des Sciences et de la Médecine au Congrès International des Sciences Historiques (Varsovie, 1933). *Isis*, 16, 129-30, 1931. ISIS

Ginzburg, Benjamin. The adventure of science. XVI + 487 p., 8 port. New York, SIMON and SCHUSTER, 1930. ISIS

Reviewed by CHARLES A. KOFOID, *Isis*, 16, 157-58, 1931.

(**History of Science Society.**) The History of Science Society council record (meeting December 30, 1930). *Isis*, 16, 124-25, 1931. ISIS

(**History of Science Society.**) History of Science Society and its relationship with *Isis*. *Isis*, 16, 125-26, 1931. ISIS

Howarth, O. J. R. The British Association for the Advancement of Science : a retrospect, 1831-1931. Centenary (second) edition. VII + 330 p., 19 pl. London, British Association, 1931. ISIS

Reviewed in *Nature*, 128, 687-89, 1931.

Junk, Victor. Die NOBELpreisträger. Dreissig Jahre NOBELstiftung. 303 p., portr. Wien, WINKLER, 1930. ISIS

Keyser, Cassius Jackson. Humanism and science. VII + 243 p. New York, Columbia University Press, 1931. ISIS

Reviewed by H. T. DAVIS, *Isis*, 16, 451-55, 1931.

Lenard, Philipp. Grosse Naturforscher. Eine Geschichte der Naturforschung in Lebensbeschreibungen. Zweite, vermehrte Auflage. 332 p., 70 portraits. München, LEHMANN, 1930. (M. 12.- geb.) ISIS

The first edition, published in 1929 (see *Isis*, 13, 533) has been followed within a year by a second enlarged one in which the author has made numerous improvements and some expansions. A portrait of COULOMB has been added, also new portraits of LINNAEUS and MENDEL, and an additional one of LEONARDO DA VINCI. The author still adheres to his sixty men of note of his first edition and limits the stars of the biological firmament, as before, to DARWIN, with only casual references to his predecessors and followers. The other fifty-nine are all representatives of the physical sciences, a wholly disproportionate and one-sided presentation of the historical progress of man's knowledge of nature. While no criticism can be directed against the inclusion of the brilliant array of physicists, chemists, and astronomers which our author presents, in all fairness to his expectant readers the title of the volume should have been modified to express with exactness the real nature of the book. In the presentation of DARWIN's contributions there is lack of clarity on the point of the factors in the struggle for existence and there is recognition neither of DARWIN's acceptance of the inheritance of variations nor of his relations to WALLACE. The nine pages allotted to the accomplishments of biologists might well be revised if not expanded in the next edition. The

word gene does not occur in the book and no investigator outside of Europe is included in the list. There is no excuse today for the use of the old-style German type face in a book for general scientific use. C. A. K.

Lodge, Sir Oliver. Advancing science : being personal reminiscences of the British Association in the nineteenth century. 191 p. London, BENN, 1931. ISIS

London and the advancement of science. By various authors. Issued by the British Association for the Advancement of Science on the occasion of its centenary meeting in London, 1931. III + 321 p. ISIS

Reviewed in *Nature*, 128, 687-89, 1931.

Pelseneer, Jean. L'histoire de la science. *Revue de l'Université de Bruxelles*, 124-49, Décembre 1931—Janvier 1932. ISIS

Leçon d'ouverture du cours d'histoire des sciences physiques et mathématiques, faite à l'Université libre de Bruxelles, le 7 novembre 1931.

Sarton, George. The history of science and the new humanism. 178 p. New York, HOLT, 1931. ISIS

Reviewed by ERNST ZINNER, *DLZ*, 2, 2151-52, 1931; by H. T. DAVIS, *Isis*, 16, 451-55, 1931; in *Quarterly Review of Biology*, 6, 492, 1931.

Sarton, George. Thirty-first critical bibliography of the history and philosophy of science and of the history of civilization (to March 1931). *Isis*, 16, 476-84, 1931. ISIS

Second International Congress of the History of Science and Technology, London, June 29th to July 3rd, 1931. *Isis*, 16, 126-29, 1931. ISIS

Tannery, Paul (1843-1904). Mémoires scientifiques. Publiés par J. L. HEIBERG & H. G. ZEUTHEN. Tome X (Supplément au tome VI). Sciences modernes, généralités historiques 1892-1903. Edité avec la collaboration de JOSEPH PÉRÈS. XVI + 498 p. Toulouse, PRIVAT, 1930. ISIS

Reviewed by GEORGE SARTON, *Isis*, 16, 155-57, 1931.

18. — PHILOSOPHY OF SCIENCE

Cohen, Morris Raphael. Reason and nature. An essay on the meaning of scientific method. XXV + 470 p. London, KEGAN PAUL, 1931. ISIS

Huxley, Julian Sorell. What dare I think? The challenge of modern science to human action and belief. Including the Henry La Barre Jayne Foundation Lectures (Philadelphia) for 1931. IX + 278 p. London, CHATTO and WINDUS, 1931. ISIS

Mackaye, James. The dynamic universe. X + 308 p. New York, SCRIBNER'S, 1931. ISIS

Reviewed by H. T. DAVIS, *Isis*, 16, 158-61, 1931.

Meyer, Adolf. Die gegenwärtige Krise der Wissenschaften und die Aufgabe der Philosophie bei ihrer Beseitigung. *Hippokrates*, 3, 393-416, Stuttgart, 1931. ISIS

Meyer, Adolf. Ueber organische Systeme. Erster Teil. *Verhandlungen des Deutschen Wissenschaftlichen Vereins zu Santiago de Chile*, 1, 105-18, 1931. ISIS

II. FORMAL SCIENCES
(Knowledge of forms)

20. — MATHEMATICS

Archibald, R. C. New mathematical periodicals. *American Mathematical Monthly*, 38, 436-39, 1931. ISIS

"There are probably few mathematicians who are aware that during the past five years at least 32 new mathematical periodicals have been started. Rumania heads the list with seven, followed by Italy with five and Poland with four."

Audisio, Fausta. Ancora sul numero π. *Period. Mat.*, 11, 149-50, 1931. ISIS

Bortolotti, Ettore. Sul numero π. *Periodico di Matematiche*, 11, 110-13, 1931. ISIS

Bortolotti, Ettore. La scoperta dell' irrazionale e le frazioni continue. *Periodico di Mat.*, 11, 133-48, 1931. ISIS

Dantzig, Tobias. Le nombre, langage de la science. 249 p. Paris, PAYOT, 1931. ISIS

Traduction française par GEORGES CROS de l'ouvrage analysé par GEORGE SARTON dans *Isis*, 16, 455-59.

Fettweis, Ewald. Parallelerscheinungen auf mathematischem Gebiet

bei jetzt lebenden Naturvölkern und bei Kulturvölkern vergangener Zeiten. *Scientia*, 423-36, 1931. ISIS

Gandz, Solomon. The origin of the ghubār numerals, or the Arabian abacus and the articuli. *Isis*, 16, 393-424, 1931. ISIS

Gandz, Solomon. The origin of the gnomon or the gnomon in Hebrew literature. *Proceedings of the American Academy for Jewish Research*, 23-38, 1930-1931. ISIS

Contents : I. Introductory. 1. History of the term gnomon; 2. The problem; II. The astronomical gnomon. 3. The shadow in magic and superstition; 4. The shadow as the time-measurer; 5. Name and primitive shape of the gnomon; III. The mathematical gnomon. 6. The mathematical gnomon in Hebrew literature; 7. The axe and the gamma. "It seems a probable conclusion that the Greeks, taking over the primitive tool and its name from the Semites, tried to give it a more Greek sounding name and so changed gām or gōm to gnomon. It will be noted that the number three, the value of the gamma, is also the first gnomon-number. Thus we may see in the primitive axe, the holy weapon and symbol of the primitive deities, the letter gamma, the carpenter's square, the mathematical and astronomical gnomon, different manifestations of one and the same form expressed by the same term."

Loria, Gino. Storia delle matematiche. Vol. 2. I secoli XVI e XVII. 595 p., 33 fig. Turin, STEN, 1931. ISIS

Reviewed by R. de MONTESSUS DE BALLORE, *Revue Générale des Sciences*, 42, 617, 1931; by DAVID EUGENE SMITH, *Amer. Mathem. Monthly*, 39, 42-44, 1932.

Miller, G. A. Theorems relating to the pre-Grecian mathematics. *American Mathematical Monthly*, 38, 496-500, 1931. ISIS

Rademacher, Hans; Toeplitz, Otto. Von Zahlen und Figuren. Proben mathematischen Denkens für Liebhaber der Mathematik. Ausgewählt und dargestellt von HANS RADEMACHER und OTTO TOEPLITZ. v + 164 p., 129 fig. Berlin, SPRINGER, 1930. ISIS

Reviewed by O. D. KELLOGG, *American Mathematical Monthly*, 38, 456-57, 1931.

Rome, A. Histoire des mathématiques. *Revue des Questions Scientifiques*, 279-305, septembre, 1931. ISIS

1. Géométrie égyptienne; 2. Arithmétique égyptienne; 3. Géographie grecque; 4. Mathématiques juives; 5. Astronomie syrienne; 6. D'Alexandrie à Bagdad.

Struik, D. J. Het woord "millioen" in oude Nederlandsche reken-

boeken. *Tijdschrift voor Nederlandsche Taal- en Letterkunde*, 50, 173-79, 1931. ISIS

With a note by J. W. MULLER, *ibid.*, 179-80.

Todhunter, Isaac. History of the mathematical theory of probability. New York, STECHERT, 1931. ISIS

Reprint of the work originally published in London in 1865.

Zentralblatt für Mathematik und ihre Grenzgebiete. Bd. 1, 1931. Berlin, SPRINGER. ISIS

Certains fascicules de cette revue dont les numéros se succèdent rapidement (le premier volume, 466 p. en 8 fascicules, était complet dès septembre 1931) contiennent une bibliographie de travaux sur l'histoire (1) des mathématiques pures et appliquées; (2) de la physique théorique; (3) de l'astrophysique; (4) de la géophysique. Quelques titres sont l'objet d'analyses, dues notamment à MM. OTTO NEUGEBAUER et KURT VOGEL. J. P.

21. — STATISTICS

(*History and methods. Tables and generalities. For the applications, refer to the sciences to which they are applied.*)

Fairchild, Henry Pratt. L'arithmique ou étude scientifique de l'aspect quantitatif de la population. Une addition à la terminologie sociologique. *Journal de la Société de Statistique de Paris*, 72, 268-70, 1931. ISIS

Gini, Corrado. Nascita, evoluzione e morte delle nazioni. Rome, LITTORIO, 1931. ISIS

Reviewed by LUCIEN MARCH, *Journal de la Société de Statistique de Paris*, 72, 302-04, 1931.

Gini, Corrado ; Boldrini, M. ; Bernardinis, L. de ; Zingali, G. Trattato italiano d'igiene. Demografia, antropometria, statistica sanitaria, dinamica delle popolazioni. Torino, 1930. ISIS

Reviewed by LUCIEN MARCH, *Journal de la Société de Statistique de Paris*, 72, 302-04, 1931.

Magnan, A. ; Sainte-Laguë, A. D'un emploi de la méthode statistique dans les sciences biologiques. *Revue générale des sciences*, 42, 539-45, 4 fig., 1931. ISIS

III. PHYSICAL SCIENCES
(Knowledge of inorganic nature.)

23. — ASTRONOMY

Andersen, Ruben. Eine Bemerkung zur Erklärung der Tzolkinperiode im Kalender der Maya. *Astron. Nachr.*, 242, 125-26, 1931. ISIS

Autolykos ; Theodosius von Tripolis. AUTOLYKOS : Rotierende Kugel und Aufgang und Untergang der Gestirne. THEODOSIUS VON TRIPOLIS : Sphärik. Übersetzt u. mit Anmerkungen versehen v. ARTHUR CZWALINA. 179 p. (*Ostwalds Klassiker d. exakten Wiss.*, Nr. 232). Leipzig, Akad. Verlagsges., 1931. ISIS

Bigourdan, Guillaume (1851-1932). Histoire de l'astronomie d'observation et des observations en France. 198 p. Deuxième partie. Paris, GAUTHIER-VILLARS, 1931. ISIS

La première partie de cet ouvrage (184 p.) a paru en 1918 chez le même éditeur. J. P.

Boccardi, Jean. La science et l'art des calculs numériques. *Revue générale des sciences*, 42, 457-61, 1931. ISIS

Forbes, V. S. The moon and radioactivity. *Annual Report of the Smithsonian Institution*, 207-17, 1930. ISIS

Reprinted, with author's alterations and additions, from the *Geological Magazine*, 66, February 1929.

Jeans, Sir James. Der Weltenraum und seine Rätsel. Aus dem Englischen übersetzt von R. NUTT. 512 p., 2 pl. Stuttgart, Deutsche Verlagsanstalt, 1931. ISIS

Ludendorff, H. Die Venustafel des Dresdener Kodex. (Untersuchungen zur Astronomie der Maya, Nr. 5.), *Sitzgsber. preuss. Akad. Wiss.*, phys.-math. Kl., 134-42, 1931. ISIS

Rome, A. Sur une loi empirique des éclipses de lune. *Annales de la Société scientifique de Bruxelles*, 51, 94-103, 1931. ISIS

St. John, Charles E. Growth in our knowledge of the sun. *Annual Report of the Smithsonian Institution*, 177-89, 7 pl., 1930. ISIS

Reprinted, with author's alterations and additions, from *Publications of the Astronomical Society of the Pacific*, 41, June 1929.

Stroobant, Paul. Histoire de l'astronomie en Belgique de 1830 à 1930. *Comptes-rendus du Congrès national des Sciences*, Bruxelles, 1930. ISIS

Teeple, John Edgar (1874-1931). Maya astronomy (*Contributions to American Archaeology*, no. 2). Publication no. 403 of the Carnegie Institution of Washington, 29-115, 19 fig., 1930. ISIS

Reviewed by GEORGE SARTON, *Isis*, 16, 459-62, 1931.

24. — PHYSICS

Babcock, H. D. Beyond the red in the spectrum. *Annual Report of the Smithsonian Institution*, 165-76, 2 pl., 1930. ISIS

A lecture delivered before the Carnegie Institution at Washington, D. C., Dec. 10, 1929; and at Pasadena, Calif., Feb. 20, 1930. Reprinted from *Publications of the Astronomical Society of the Pacific*, 42, April 1930.

Bohr, Niels. Atomtheorie und Naturbeschreibung. Vier Aufsätze mit einer einleitenden Übersicht. 77 p. Berlin, SPRINGER, 1931. ISIS

Reviewed by A. SOMMERFELD, *DLZ*, 2, 2105-06, 1931.

Bohr, Niels. MAXWELL and modern theoretical physics. *Nature*, 128, 691-92, 1931. ISIS

Address delivered on the occasion of the MAXWELL Centenary celebrations at Cambridge on Oct. 1.

Broglie, Louis de. Waves and corpuscles in modern physics. *Annual Report of the Smithsonian Institution*, 243-53, 2 pl., 1930. ISIS

Lecture delivered by L. DE BROGLIE, who had been awarded the Nobel prize, at a conference at the Bureau of Arts and Measures, presided over by P. PAINLEVÉ, Jan. 26, 1930. Translated from *Revue générale des sciences*, 41, 101-08, 1930.

Eddington, Arthur Stanley. Das Weltbild der Physik und ein Versuch seiner philosophischen Deutung (The nature of the physical world). Aus dem Englischen übers. v. MARIE Freifrau RAUSCH v. TRAUBENBERG und H. DIESSELHORST. VIII + 356 p. Braunschweig, VIEWEG, 1931. ISIS

Reviewed by C. G. HEMPEL, *DLZ*, 2, 2339-46, 1931.

Langmuir, Irving. Modern concepts in physics and their relation to chemistry. *Annual Report of the Smithsonian Institution*, 219-41, 1930. ISIS

Presidential address before the seventy-eight meeting of the American

Chemical Society, Minneapolis, Minn., Sept. 11, 1929. Reprinted from the *General Electric Review*, 32, December 1929.

(**Ministère du Commerce et de l'Industrie.**) Le système métrique décimal. 256 p., 21 pl. Paris, GAUTHIER-VILLARS, 1930. ISIS

Rohr, Moritz v. Der wahre Erfinder der achromatischen Fernrohre. *Z. Instrumentenkde.*, 51, 85-91, 1931. ISIS

25. — CHEMISTRY, PHYSICO-CHEMISTRY, INDUSTRIAL CHEMISTRY

Bertrand, Gabriel. Résumé historique de la Chimie des Oses, particulièrement depuis EMIL FISCHER. Rapports sur les Hydrates de Carbone (Glycides), 9-32, Paris, 1930. ISIS

Bloch, M. Über einige Gesetzmässigkeiten im Schaffen hervorragender Chemiker. 55 p. Berlin, Verlag Chemie, 1931. ISIS

Bugge, Günther. Das Buch der grossen Chemiker. Unter Mitwirkung namhafter Gelehrter. Bd. 2. 559 p., 78 fig. Berlin, Verlag Chemie, 1931. ISIS

Der zweite Band dieses unentbehrlichen Werkes enthält die Lebensbeschreibungen von LIEBIG, WÖHLER, DUMAS, GRAHAM, BUNSEN, GERHARDT, WURTZ, KOLBE, LAURENT, A. W. v. HOFMANN, PASTEUR, CANNIZZARO, BERTHELOT, KEKULÉ, GRIESS, LOTHAR MEYER, MENDELEJEFF, RAMSAY, CROOKES, HEINRICH CARO, FRANK, v. BAEYER, WINKLER, LUNGE, v. BRUNCK, VICTOR MEYER, VAN 'T HOFF, EMIL FISCHER, EHRLICH, ARRHENIUS. Das sind insgesamt 30 Lebensbeschreibungen, alle exakt bearbeitet und fliessend geschrieben. Besonders wertvoll für den Fachmann sind die Anhänge zu dem Gesamtwerk auf S. 463 bis 559. Da ist zunächst eine ganz vorzügliche Bibliographie, beginnend mit allgemeinen Werken und schliessend mit der Literatur über die einzelnen grossen Chemiker. Dann folgen zuverlässige Namen- und Sachregister und schliesslich Verzeichnisse der Nobelpreisträger.
F. M. F.

Chemnitius, Fritz. Die Chemie in Jena von ROLFINCK bis KNORR (1629-1921). 192 p. Jena, BIEDERMANN, 1921. ISIS

This is a history of the teaching of chemistry at Jena, and consists of two principal chapters containing biographies of the professors and covering respectively the periods when chemistry was important because of its services to pharmacy and when chemistry was an independent study. These are followed by a history of the Chemical Institute of the University, and by Tables indicating the dates of the professors and the courses which they gave. It is to be wished that there were similar books relative to other universities. The book contains portraits of WERNER ROLFINCK (1599-1673), GEORG WOLFGANG WEDEL (1645-1721), JOHANN ADRIAN SLEVOGT (1653-1726),

JOHANN ADOLPH WEDEL (1675-1747), HERMANN FRIEDRICH TEICHMEYER (1685-1744), ERNST ANTON NICOLAI (1722-1802), JOHANN WOLFGANG DÖBEREINER (1780-1849), HEINRICH WILHELM FERDINAND WACKENRODER (1798-1854), EDUARD REICHARDT (1827-1891), JOHANN GEORG ANTON GEUTHER (1833-1889), and LUDWIG KNORR (1859-1921). T. L. D.

Davis, Tenney L. BOYLE's conception of element compared with that of LAVOISIER. *Isis*, 16, 82-91, 1931. ISIS

Färber, Eduard. Zur Geschichte der Zuordnung von Stoff und Eigenschaft. *Isis*, 16, 425-38, 1931. ISIS

Ferchl, Fritz. Von LIBAU bis LIEBIG : Chemikerköpfe und Laboratorien, 48 leaves. Mittenwald, NEMAYER, 1930. ISIS

This book has a preface of two printed pages, or one leaf, and the rest of it is devoted to pictures. There are pictures of apparatus and laboratories, many of them depicting important chemical processes as carried out in the past or experiments famous in the history of chemistry. There are reproductions of celebrated paintings of alchemists and of rare portraits of chemists. There are pictures of apothecary shops and of tables of alchemical symbols. The pictures are accompanied by brief accounts of their history or significance, and the portraits by brief biographies. It is a fascinating little book. T. L. D.

Lippmann, Edmund O. von. Entstehung und Ausbreitung der Alchemie. Zweiter Band. Ein Lese- und Nachschlage-Buch. VII + 257 p. Berlin, SPRINGER, 1931. ISIS

Reviewed by GEORGE SARTON, *Isis*, 16, 462-63, 1931.

Moore, Forris Jewett. A history of chemistry. 2nd ed., revised by WILLIAM T. HALL. XXIII + 324 p., illus. New York, MCGRAW-HILL, 1931. ISIS

The revision of this standard textbook is a distinct improvement over the first edition, both because earlier errors have been corrected and because new material has been included. In particular, the section which deals with recent developments in the borderland between physics and chemistry has been expanded and a new chapter on Chemistry in the United States has been added which contains sketches of the life and work of JAMES WOODHOUSE, THOMAS COOPER, JOHN MACLEAN, Count RUMFORD, the BENJAMIN SILLIMANS, father and son, ROBERT HARE, JAMES CURTIS BOOTH, JOHN LAWRENCE SMITH, OLIVER WOLCOTT GIBBS, JOSIAH PARSONS COOKE, CHARLES FREDERICK CHANDLER, EDWARD WILLIAMS MORLEY, J. WILLARD GIBBS, jr., JAMES MASON CRAFTS, IRA REMSEN, FRANK AUSTIN GOOCH, WILLIAM FRANCIS HILLEBRAND, EDGAR FAHS SMITH, JOHN ULRICH NEFF, and THEODORE WILLIAM RICHARDS. The portrait and biography of Professor MOORE (a Foundation Member of the History of Science Society) adds to the interest of the volume.

The revision maintains the unsympathetic attitude of the original book

toward early chemistry. The important work of the Arabic chemists is dismissed with a single paragraph, and there is manifest something of a tendency to scoff at all chemical speculations prior to LAVOISIER. The reviewer has used MOORE's book for a number of years as the textbook for his course in the history of chemistry, but has found it necessary to use in addition a second book (HOLMYARD or STILLMAN) which treats more fully and more sympathetically of the earlier period where the morphology of theories may be studied without prejudice. T. L. D.

Mund, Walter. L'histoire des sciences en Belgique : La chimie. Histoire de la Belgique contemporaine, 3, 413-30, Bruxelles, DEWIT, 1931. ISIS

Newell, Lyman C. Caricatures of chemists as contributions to the history of chemistry. *Journal of Chemical Education*, 8, 2138-55, 28 fig., 1931. ISIS

Nierenstein, M. The early history of the first chemical reagent. *Isis*, 16, 439-46, 1931. ISIS

Ruska, Julius. Turba philosophorum : ein Beitrag zur Geschichte der Alchemie. x + 368 p. (*Quellen und Studien zur Geschichte der Naturwissenschaften und der Medizin* : Fortsetzung des *Archivs für Geschichte der Mathematik, der Naturwissenschaften und der Technik.* Hrsg. vom. Institut für Geschichte der Medizin und der Naturwissenschaften. Redigiert von P. DIEPGEN und J. RUSKA. Bd. 1.) Berlin, SPRINGER, 1931. ISIS

Thurow, Willy H. Wörterbuch der Chemie. Teil 1 : Englisch-Deutsch. VII + 261 p. Berlin, TETZLAFF, 1931. ISIS

26. — TECHNOLOGY

(*For mining, see* 32. *geology* ; *for industrial chemistry*, 25. *chemistry. See also arts and crafts under* 45.)

Boulton, W. H. The pageant of transport through the ages. Introduction by Sir JOSIAH STAMP. XVIII + 238 p. London, LOW, 1931. ISIS

Breithaupt, G. Zur Geschichte der Dosenlibelle. *Z. Instrumentenkde.*, 51, 256-59, 1931. ISIS

Chapuis, Alfred ; Gélis, Ed. Le monde des automates. Etude historique et technique. 2 vols. vol. 1, XVI + 351 p. ; vol. 2, 355 fig.

Chez les auteurs : A. CHAPUIS, 38, rue Champ-Bougin, Neuchâtel, Suisse ; E. GÉLIS, 26 rue Milton, Paris. ISIS

Clark, E. Kitson. Humanity under the hammer. Presidential address to the Institution of Mechanical Engineers, 23rd October, 1931. 35 p., 20 fig. London, 1931. ISIS

Contains much information on the history of man's earliest tool : the hammer.

Feldhaus, Franz M. Die Technik der Antike und des Mittelalters. 442 p., 452 illus., 15 pl. (Museum der Weltgeschichte. Die staatliche, wirtschaftliche, soziale, geistige und kulturelle Entwicklung der Völker in Einzeldarstellungen. Hrsg. von PAUL HERRE.) Potsdam, Athenaion, 1931. ISIS

Reviewed by GEORGE SARTON, *Isis*, 16, 167-69, 1931; by FERDINAND SCHEVILL, *American Historical Review*, 37, 92-93, 1931.

Fox, Cyril. Sleds, carts, and waggons. *Antiquity*, 5, 185-99, 3 fig., 16 pl., 1931. ISIS

Georgii, Walter. Ten years' gliding and soaring in Germany. *Annual Report of the Smithsonian Institution*, 273-83, 16 pl., 1930. ISIS

Lecture delivered before the Royal Aeronautical Society, London, on Feb. 19, 1930.

Gray, Carl C. ; Hagen, H. F. The eighth wonder : the Holland vehicular tunnel. *Annual Report of the Smithsonian Institution*, 577-607, 30 pl., 5 fig., 1930. ISIS

Reprinted with a few omissions from a pamphlet entitled "The eighth wonder," published by B. F. STURTEVANT Co., New York.

Greeff, R. Der Brillenverkäufer in alter Zeit. Ein Brillenverkäufer im Totentanz. *Dt. Opt. Wochenschr.*, 17, 85-88, fig., 1931. ISIS

Gregory, John Walter. The story of the road from the beginning down to A.D. 1931. London, MACLEHOSE, 1931. ISIS

Klinckowstroem, Graf **Carl v.** Das Erwachen des technischen Denkens. Von den Werkzeugen und Urerfindungen des vorgeschichtlichen Menschen. *Technik und Kultur*, 22, 175-79, 1931. ISIS

Köditz, Emil. Ein halbes Jahrhundert Autotypie. *Arch. f. Buchgewerbe u. Gebrauchsgraphik*, 68, 147-48, 2 fig., 1931. ISIS

Lüdemann, Karl. Zur Geschichte der Dosenlibelle. (Beiträge zur Geschichte des geodätischen und markscheiderischen Messungswesens und der vermessungstechnischen Instrumentenkunde, Nr. 12). *Z. Instrumentenkde.*, 51, 136-44, 1931. ISIS

Nichols, Henry Windsor. Cement. 15 p., 4 pl. (*Geology*, leaflet 12.) Chicago, Field Museum of Nat. Hist., 1929. ISIS

Pitcairn, Harold F. The autogiro : its characteristics and accomplishments. *Annual Report of the Smithsonian Institution*, 265-71, 9 pl., 1930. ISIS

Presented at the stated meeting of the Franklin Institute held Wednesday, Nov. 20, 1929. Reprinted from the *Journal of the Franklin Institute*, 209, 1930.

Rohr, M. v. Unser Wissen von den Nürnberger und Fürther Brillenmachern. *Z. ophthalm. Optik*, 19, 33-71, 1931. ISIS

Salomon, W. Die Brunnen von Venedig als Erzeuger von künstlichem Grundwasser. *Natur u. Museum*, 60, 227-31, 3 fig., 1930. ISIS

Vhink, W. Eine historische Bemerkung über das Fernrohr mit Fokussierlinse (Werkstätten v. F. W. BREITHAUPT & Sohn, Kassel). *Z. Instrumentenkde.*, 51, 91-93, 1931. ISIS

Vowles, Hugh P. ; Vowles, Margaret W. The quest for power : from prehistoric times to the present day. XV + 354 p., 88 pl. London, CHAPMAN and HALL, 1931. ISIS

IV. BIOLOGICAL SCIENCES
(Knowledge of organic nature)

27. — BIOLOGY
(*Generalities*, " *Natural History* ")

Bray, George W. Recent advances in allergy (asthma, hay-fever, eczema, migraine, etc.) Foreword by A. F. HURST. XII + 432 p., 4 pl., 98 figs. Philadelphia, BLAKISTON, 1931. ISIS

Although titled only as " recent advances " this work is practically a complete history of this significant field of the reactions of the individual to foreign proteins. It has its scientific beginnings with JENNER's (1798) observations in skin reactions in inoculation for smallpox, followed long after by WEICHHARDT and WOLFF-EISNER's (1905-06) suggestion that human hypersensitiveness in hay-fever was related to anaphylaxis in animals, VON

PIRQUET's (1906) coinage of the word " allergy " for altered reactivity, MELTZER's (1910) view that asthma was an anaphylactic phenomenon, and DOERR's (1912) elaboration of the term allergy to all forms of changed reaction capacity. The first part treats of allergy in general, including protein skin reactions; the hereditary nervous, endocrine, nasal, toxic, and environmental factors; changes in the blood; and biochemical aspects. The second part treats of the individual manifestations of allergy in asthma; hay-fever; cutaneous allergies including eczema, pruritis, ichthyosis, dermatitis venenata, urticaria, and erythema; cerebral manifestations in migraine and epilepsy; food allergies in muco-membranous colic and purpura; bacterial, physical, and drug allergies; serum reactions; and allergic joint, eye reactions, and hypersensitiveness to insects, parasites, moulds, and fungi. C. A. K.

Cohn, Alfred. Medicine, science and art. XIV + 212 p. Chicago, University Press, 1931 ($ 4.00). ISIS

Reprinted in this volume are " The development of the Harveian circulation " from the *Annals of Medical History* 1, 1929; " Purposes in medical research " from the *Journal of Clinical Medicine*, 1, 1924; " Medicine and science " from the *Journal of Philosophy*, 25, 1928; and " Physiology and medicine " from *Science*, 68, 1928, all with a historical background. A chapter on the " Difference between art and science " contains some historical data on the distinctions which have been made between art and science and artists and scientists. They are not always separable, witness DANTE's and MILTON's Cosmologies, the PYTHAGOREAN relations of mathematics and music, and GOETHE's narrow escape from morphology. The difference predicated between science and art is that it is the nature of science to be general, of art to be individual; but science is not always general, does not often progress in a linear fashion, and is far from free from individual influences. Art likewise makes discoveries, has a surprising internal vigor and consistency, and in it also innovations set the stage for new developments. C. A. K.

Davenport, Charles B. The mechanism of organic evolution. *Annual Report of the Smithsonian Institution*, 417-29, 1 pl., 3 fig., 1930. ISIS

Presented before the two hundred thirty-third meeting of the Washington Academy of Sciences, as one of the series of papers on Origin and Evolution. Reprinted from the *Journal of the Washington Academy of Sciences*, 20, 1930.

Hinton, James. Life in nature. Edited with an introduction by HAVELOCK ELLIS. 291 p. New York, Dial Press, 1931 ($ 3.00). ISIS

In 1862, JAMES HINTON published his " Life in Nature " previously issued serially in the Cornhill Magazine under THACKERAY's editorship under the title of " Physiological Riddles." It is now republished with a forty page introduction by HAVELOCK ELLIS, who discusses the historical and prophetic significance of HINTON's treatise with reference to the unity of nature. HINTON was a descendant of the TAYLORS of Ongar, a family noted for intellectual vigor and marked individuality, characteristics fully shared by HINTON. He was an aural surgeon of great skill and high reputation, and a contributor

to the literature of that field and of physiology. In 1858, he anticipated SPENCER's later generalization that growth takes place in the direction of least resistance in an article in the *Medico-Chirurgical Review*, " On physical morphology, or the law of organic forms." He also published in 1859, " Man and his dwelling place, an essay towards the interpretation of nature." HINTON's thesis was that " Organic life is not a new thing in Nature." There is nothing more in the organic than in the inorganic. All the inorganic, all Nature, is living. Nature is the reality of the spiritual world, of which our little conventional " spiritual world " is merely a fictitious image. HINTON thus preceded by twenty years CLIFFORD's statement that " along with every motion of matter there is some fact which corresponds with the mental fact in ourselves." C. A. K.

Imms, A. D. Recent advances in entomology. VIII + 374 p., 84 figs. Philadelphia, BLAKISTON, 1931 ($ 3.50). ISIS

This work surveys the more significant advances in entomological research since 1910. The treatment falls into subjects of morphology, palaeontology, behavior, coloration, ecology, parasitism, and biological control. The outstanding reviews of historical interest are those of the BERLESE theory of insect metamorphosis; the summary of the palaeontological evidence to date of the orders of insects known only as fossils, and the table of the geological history of all insects; a valuable review of the present state of knowledge of insect sense organs and of the analysis of the reactions of insects to light, chemical substances, touch, and tones. This summary indicates that some insects are blind to the red end of the spectrum and are sensitive into the ultra violet. The structural, pigmentary, and combined colors are reviewed and the relations of physiological processes to carotinoid pigments, chlorophyll, uric acid derivatives, and melanin discussed. Induced melanism in industrial districts and its experimental simulation by mineral salts added to food of larval moths, or by organic and inorganic vapors, is critically summarized, as are also the experiments of POULTON and others on the selective effect of colored backgrounds on the control of coloration of pupae via the general integument, or by decreasing or increasing the action of tyrosinase in the case of green pigments. The section dealing with the ecology of insects is important because of recent progress in that field. The effects of temperature, humidity, light, pressure, food, and climate are reviewed and the applications of the results in regulation of crop growth and the use of varieties resistant to insect attack are surveyed. The book closes with a review of parasitism, host selection, life cycles, host relations of parasites, polyembryony, behavior of adult parasites, biological control by the use of parasites, factors governing the use of introduced and indigenous parasites, and the control of noxious weeds by insects. C. A. K.

Körner, Otto. Die homerische Tierwelt. 100 p. München, BERGMANN, 1930 (M. 6.60). ISIS

This is a revised edition of an article published in 1880 in the *Archiv für Naturgeschichte*, based on fuller knowledge of the fauna of the Near East and on later textual criticism. Citations abound and similes and comparisons are utilized to reveal the extent of Homeric animal lore. A full

bibliography and indices of animal names in Greek, of words elucidated, and of passages in the Iliad and Odyssey on which this treatise throws light, are added. The author correctly interprets πορφύρεος when applied to the sea at night, not as " purple colored " but as " sparkling " or " luminescent," a mysterious phenomenon widely commented upon (see EHRENBERG, C. G. " Das Leuchten des Meeres " *Abh. Berlin. Akad.*, 1834) by the ancients, but now known to be due mainly to the luminescence of individual microscopic *Dinoflagellata* (including *Noctiluca*) which are stimulated to luminesce by the movement of the water. Hence " rushing waved the luminous (πορφύρεον) flood about the bow of the gliding ship." C. A. K.

Meyer, Adolf. Das Problem des Lebens. *Verhandlungen des Deutschen Wissenschaftlichen Vereins zu Santiago de Chile*, 1, 71-103, 1931. ISIS

28. — BOTANY

(*Agronomy, phytopathology, palaeobotany*)

Brackett, F. S.; Johnston, Earl S. New researches on the effect of light waves on the growth of plants. *Annual Report of the Smithsonian Institution*, 255-64, 3 pl., 1 fig., 1930. ISIS

Hobson, Asher. The International Institute of Agriculture (an historical and critical analysis of its organisation, activities and policies of administration.) VII + 356 p. Berkeley, University of California Press, 1931. ISIS

Reviewed in *Nature*, 128, 737-38, 1931.

McNair, James Birtley. Spices and condiments. 64 p., fig. (*Botany*, leaflet 15.) Chicago, Field Museum of Nat. Hist., 1930. ISIS

Senn, G. Medizinische Theorien in der antiken Botanik. *Verh. Schweiz. Naturf. Ges.*, 111, 377-78, 1930. ISIS

Wildeman, Emile De. La botanique congolaise depuis 1830. Congrès national des sciences, Liége, 1930. ISIS

Wildeman, Emile De. CRÉPIN. La Société royale de Botanique de Belgique et le Jardin Botanique de l'Etat. Commémoration du 100e anniversaire de la naissance de FRANÇOIS CRÉPIN. *Bull. du Jardin Botanique de l'Etat*, 9, 66-77, 1931. ISIS

Woodward, Marcus. Leaves from GERARD's Herball arranged for garden lovers. XII + 305 p., 130 fig. Boston, HOUGHTON MIFFLIN, 1931 ($ 3.00). ISIS

This is a condensation and rearrangement in the form of a garden calendar of GERARD's (1633) Herball, omitting JOHNSON's comments and all cross headings, but including his discourse on trees. The text is that of GERARD, preserving his sly humor and well-flavored English. There are one hundred and thirty figures after the original woodcuts, including that of the barnacle tree. There are six pages of notes, the table of vertues, and an alphabetical table of the three hundred and twenty-six plants included in the book.

C. A. K.

29. — ZOOLOGY

Cole. F. J. Early theories of sexual generation. x + 230 p., 12 pls., 9 figs. Oxford, University Press, 1930. ISIS

Reviewed by CHARLES A. KOFOID, *Isis*, 16, 463-65, 1931.

Crandall, See Saunders. Paradise quest ; a naturalist's experiences in New Guinea. xvii + 226 p. London, SCRIBNERS, 1931. ISIS

Howard, Leland Ossian. Man and insects. *Annual Report of the Smithsonian Institution*, 395-99, 1930. ISIS

Reprinted from The *Journal of the Maryland Academy of Sciences*, 1, 1930.

Howard, Leland Ossian. The rise of applied entomology in the United States. *Annual Report of the Smithsonian Institution*, 387-93, 1930. ISIS

Paper read at the twelfth annual meeting of the Agricultural History Society, Washington, D. C., Apr. 29, 1929. Reprinted from *Agricultural History*, 3, 1929.

Miller, Gerrit S., jr. Human hair and primate patterning. *Smithsonian Miscellaneous Collections*, 85, 13 p., 5 pl. Washington, D.C., 1931. ISIS

V. SCIENCES OF THE EARTH

(Implying knowledge of both organic and inorganic nature.)

31. — GEOGRAPHY AND OCEANOGRAPHY

Almagià, Roberto. Monumenta Italiae cartographica : riproduzioni di carte generali e regionali d'Italia del secolo XIV al XVII. vi + 88 p., 65 pl. Florence, Istituto Geografico Militare, 1929. ISIS

Close, Sir Charles. The ordnance survey. *Antiquity*, 5, 149-60, 1931. ISIS

Fischer, Norbert. Die grossen Kartensammlungen in ihrem Werden

und Aufbau. *Zentralblatt f. Bibliothekswesen*, 48, 269-88, 1931. ISIS

Isachsen, Gunnar. Norwegian explorations in the Antarctic, 1930-1931. *Geographical Review*, 83-96, map, 1932. ISIS

Jorga, Nicolae. Geschichte der Rumänen aus den Beschreibungen alter Reisender. 4 vols. 287, 251, 271, 86 p. Bucharest, 1920-1922. (Rumanian) ISIS

Reparaz, Gonçal de (Fill). Catalunya a les mars. Navegants, mercaders i cartògrafs catalans de l'edat mitjana i del renaixement. Contribució a l'estudi de la història del comerç i de la navegació de la Mediterrània. Pròleg de GONÇAL DE REPARAZ. 252 p. Barcelona, MENTORA, 1930 (In Catalan ; the preface is in Spanish). ISIS

Reviewed by A. POGO, *Isis*, 16, 173-74, 1931.

32. — GEOLOGY, MINERALOGY, PALAEONTOLOGY, MINING

(*For palaeobotany, palaeozoology, and palaeoanthropology, see respectively*, 28. *Botany*, 29. *Zoology*, *and* 39. *Prehistory*)

Didier, L. Histoire du bassin de Bruay. *Bull. soc. géol. France*, 28, 493-98, 1928. ISIS

Hadding, Assar. The first rains and their geological significance. *Annual Report of the Smithsonian Institution*, 285-94, 1930. ISIS

From a lecture delivered before the K. Fysiogr. Sällsk. at Lund on Mar. 9, 1927. Reprinted from *Geologiska Foreningens i Stockholm Forhandlingar*, January-February, 1929.

Richarz, Stephen. The age of the human race in the light of geology. *Annual Report of the Smithsonian Institution*, 451-64, 3 pl., 1 fig., 1930. ISIS

Reprinted from publications of the Catholic Anthropological Conference, 1, 1929.

33. — METEOROLOGY, CLIMATOLOGY, AND TERRESTRIAL PHYSICS

Dept, G. G. Quelques documents météorologiques inédits. *Revue des questions scientifiques*, 50, 460-73, 1931. ISIS

Reeds, Chester A. Weather and glaciation. *Annual Report of the Smithsonian Institution*, 295-326, 15 fig., 1930. ISIS

Address before section E of the American Association for the Advancement of Science, Dec. 27, 1928. Reprinted from the *Bulletin of the Geological Society of America*, 40, 597-630, 1929.

(Royal Meteorological Society). Bibliography of meteorological literature. Prepared by the Royal Meteorological Society with the collaboration of the Meteorological Office. Vol. 2, no. 20 (July-December, 1930). II + p. 345-86. London, Royal Meteorological Society, 1931. ISIS

Smith, F. E. Theories of terrestrial magnetism. *Nature*, 126, 402-05, 1930. ISIS

VI. ANTHROPOLOGICAL AND HISTORICAL SCIENCES
(Knowledge of man, past, and present)

35. — PHYSICAL ANTHROPOLOGY
(*Anthropometry and races of man*)

Gerlach, Kurt. Begabung und Stammesherkunft im deutschen Volke. Feststellungen über die Herkunft der deutschen Kulturschöpfer in Kartenbildern. 112 p., 23 maps, 1 pl. München, LEHMANN, 1929. ISIS

Günther, Hans F. K. Racial elements of European history. Translated from the second German edition by G. C. WHEELER. VII + 279 p., 368 port., illus., 22 maps. London, METHUEN, 1927. ISIS

Smith, G. Elliot; Keith, Sir **Arthur; Parsons, F. G.; Burkitt, M. C.; Peake, Harold J. E.; Myres, J. L.** Early man: his origin, development and culture. Lectures delivered for the Royal Anthropological Institute. XII + 176 p., 12 pl. London, BENN, 1931. ISIS

Reviewed in *Nature*, 128, 951, 1931.

Ward, Robert De C. The acclimatization of the white race in the tropics. *Annual Report of the Smithsonian Institution*, 557-76, 1930.

A lecture given at the Lowell Institute, Boston. Reprinted from the *New England Journal of Medicine*, 201, 617-27, 1929.

36. — PHYSIOLOGY (*human and comparative*)

Demoor, J. Les sciences physiologiques au cours des cinquante dernières années. *Revue de l'Université de Bruxelles*, 36, 111-36, 22 fig., 1930-31. ISIS

Frédéricq, Léon. Les sciences physiologiques en Belgique depuis 1830. *Le Scalpel*, p. 21, 1931. ISIS

Fulton, John F. Physiology. Volume 5 in the *Clio Medica* series. XVI + 141 p., frontispiece, 7 illus. New York, HOEBER, 1931. ISIS

Reviewed by C. D. LEAKE, *Isis*, 16, 174-76, 1931.

37. — PSYCHOLOGY (*human and comparative*)

Brauchle, Alfred. Hypnose und Autosuggestion. 78 p. Leipzig, Reclam, 1929. ISIS

Lange-Eichbaum, Wilhelm. The problem of genius. Translated by EDEN and CEDAR PAUL. XIX + 187 p. London, KEGAN PAUL, 1931. ISIS

Murchison, Carl (ed.) Psychologies of 1930. By ALFRED ADLER, MADISON BENTLEY, EDWIN G. BORING, G. S. BRETT, HARVEY CARR, JOHN DEWEY, KNIGHT DUNLAP, J. C. FLUGEL, WALTER S. HUNTER, PIERRE JANET, TRUMAN L. KELLEY, K. KOFFKA, WOLFGANG KÖHLER, K. N. KORNILOV, WILLIAM MCDOUGALL, JOHN PAUL NAFE, I. P. PAVLOV, FRIEDRICH SANDER, A. L. SCHNIERMANN, C. SPEARMAN, LEONARD T. TROLAND, MARGARET F. WASHBURN, ALBERT P. WEISS, ROBERT S. WOODWORTH. XIX + 497 p. (The International University series in psychology.) Worcester, Mass., Clark University Press, 1930. ISIS

38. — ARCHAEOLOGY

(*Generalities, methods*)

(Chicago, Univ. of). Field expeditions of the Oriental Institute of the University of Chicago. *Science*, 74, 589, 1931. ISIS

Of the twelve field expeditions of the Oriental Institute, seven are in Egypt : Architectural Survey, Epigraphic Survey, Abydos Expedition, Coffin Text Project, Sakkara Project, Theban Tomb Painting Project, Prehistoric Survey. The remaining five are : the Megiddo, Anatolian, Iraq, Persian, and Syrian Expeditions. A. P.

Magoffin, Ralph V. D. Archaeology as a science. *Journal of Urusvati* (Himalayan Research Institute, Roerich Museum, New York), 1, 7-11, 1931. ISIS

Means, Philip Ainsworth. Ancient civilizations of the Andes. XVIII + 586 p., 224 illus., map. New York, SCRIBNER'S, 1931. ISIS

Reviewed by GEORGE SARTON, *Isis*, 16, 465-68, 1931.

Mesnil du Buisson, Count **du.** The art of excavation. *Journal of Urusvati* (Himalayan Research Institute, Roerich Museum, New York), 1, 13-26, illus., 1931. ISIS

Mesnil du Buisson, Comte **du.** La technique des fouilles archéologiques. Les principes généraux. Conférences de première année faites à l'Ecole du Louvre, dans les années scolaires 1928-1929 et 1931-1932. 224 p., 3 pl., 11 fig. Paris, GEUTHNER, 1932. ISIS

Oman, Sir **Charles.** The coinage of England. Oxford, University Press, 1931. ISIS

Swanton, John R. Modern square grounds of the Creek Indians. 46 p., 5 pl., 15 fig. (*Smithsonian Miscellaneous Collections*, 85, number 8.) Washington, 1931. ISIS

39. — PREHISTORY

Furon et **Pérébaskine.** Contribution à l'histoire de la préhistoire du Soudan Oriental. *Bull. com. d'études hist. et scient. de l'A. O. F.*, 12, 86-91, Paris, 1929. ISIS

MacCurdy, George Grant. Recent progress in the field of Old World prehistory. *Annual Report of the Smithsonian Institution*, 495-509, 8 pl., 1930. ISIS

Reprinted, with author's revision and addition of illustrations, from *Proceedings of the American Philosophical Society*, 69, 1930.

Peake, Harold; Fleure, Herbert John. Merchant venturers in bronze. VIII + 168 p. (*The corridors of time*, 7.) Oxford, University Press, 1931. ISIS

Pond, Alonzo William. Primitive methods of working stone, based on experiments of HALVOR L. SKAVLEM. 143 p., 64 illus. Beloit College, Wis., Logan Museum, 1930. ISIS

Reviewed by G. W. WILLIS, *Antiquity*, 5, 390, 1931.

40. — ETHNOLOGY (*Primitive and popular science*)

Beckman, Harry. Kalevala. The account of a very early people. *Medical Life*, 38, 599-646, 1931. ISIS

Bogoras, W. G. Elements of the culture of the circumpolar zone. *Annual Report of the Smithsonian Institution*, 465-82, 1930. ISIS

Introduction to a university course on the culture of the Arctic and sub-Arctic zones. Reprinted from the *American Anthropologist*, 31, 1929.

Frobenius, Leo. Des Menschen Schicksal auf dieser Erde. *Erdball*, 5, 145-58, 180-97, 1931. ISIS

Goodland, Roger. A bibliography of sex rites and customs : an annotated record of books, articles and illustrations in all languages. v + 752 p. London, ROUTLEDGE, 1931. ISIS

Jeremias, Alfred. Der Schleier von Sumer bis heute. 70 p., 23 fig. (*Der alte Orient*, Bd. 31, H. 1-2.) Leipzig, HEINRICH, 1931. ISIS

Reviewed by HABERLING, *Mitteilungen zur Geschichte der Medizin und der Naturwissenschaften*, 30, 261, 1931.

Marinus, Albert. L'observation directe dans le folklore. Comptes Rendus du Congrès National des Sciences, Bruxelles, 29 juin — 2 juillet 1930. 5 p. Liége, THONE, 1931. ISIS

Marzell, Heinrich. Die Alpenpflanzen im Volksglauben. Ein botanischer Beitrag zur Volkskunde der Alpenländer. *Jahrb. d. Ver. zum Schutz d. Alpenpflanzen*, 3, 24-35, 4 fig., 1931. ISIS

Nieuwenhuis, A. W. Die Anfangsformen der Naturwissenschaften in Ozeanien : Die dualistische Naturbetrachtung. *Janus*, 35, 17-58, 1931. ISIS

Schapiro, D. La péritomie. *Janus*, 35, 169-83, 207-16, 221-48, 1931. ISIS

Stülpner, Kurt. Der Tote in Brauch und Glauben der Madagassen. 144 p., 6 maps. (*Studien z. Völkerkde.* Hrsg. v. O. RECHE u. H. PLISCHKE. Bd. 3.) Leipzig, Verlag d. Werkgemeinschaft, 1929. ISIS

Reviewed by PAUL HAMBRUCH, *DLZ*, 2, 2286-88, 1931.

Winthuis, Josef. Einführung in die Vorstellungswelt primitiver Völker. Neue Wege der Ethnologie. 364 p., 4 pl. Leipzig, HIRSCHFELD, 1931. ISIS

Reviewed by BUSCHAN, *Mitteilungen zur Geschichte der Medizin und der Naturwissenschaften*, 30, 293, 1931.

Winthuis, Josef. Die Wahrheit über das Zweigeschlechterwesen durch die Gegner bestätigt. VII + 100 p., 2 port. (*Beilage z.*

Zeitschr. f. Völkerpsychol. u. Soziol., VI, 1930.) Leipzig, HIRSCHFELD, 1930. ISIS

Reviewed by K. TH. PREUSS, *DLZ*, 2, 2141-45, 1931.

41. — SUPERSTITION AND OCCULTISM

Baechtold-Stäubli, Hanns. Handwörterbuch des deutschen Aberglaubens. Hrsg. unter bes. Mitwrkg. von E. HOFFMANN-KRAYER u. Mitarb. zahlr. Fachgen. Bd. 3. Lief. 12 u. 13. p. 1585-1728. Berlin, DE GRUYTER, 1931. ISIS

Becker, Kuno. Märkische Pflanzen im Volksaberglauben. *Brandenburgia*, 40, 64-66, 1931. ISIS

Buschan, Georg. Vom bösen Blick, Dämonen und Geistern im morgenländischen Aberglauben. *Mitt. d. Bundes d. Asienkämpfer*, 13, 71-73, 1931. ISIS

Grillot de Givry, Emile Angelo. Witchcraft, magic, and alchemy. Translated by J. COURTENAY LOCKE. 395 p., 10 pl. London, HARRAP, 1931. ISIS

Lassally, Oswald. Von der Entstehung des Aberglaubens an Sterne und Steine. *Geisteskultur*, 40, 87-92, 1931. ISIS

Negelein, Julius v. Weltgeschichte des Aberglaubens. 1. Band: Die Idee des Aberglaubens. Sein Wachsen und Werden. VIII + 373 p. Berlin, DE GRUYTER, 1931. ISIS

Reviewed by MARZELL, *Mitteilungen zur Geschichte der Medizin und der Naturwissenschaften*, 30, 292, 1931.

42. — ECONOMICS

(*Economic doctrines and history. Commerce. Transportation and communications*)

Feavearyear, A. E. The pound sterling. A history of English money. X + 367 p. Oxford, University Press, 1931. ISIS

Sakâzov, Ivan. Bulgarische Wirtschaftsgeschichte. Aus dem Bulgarischen übertragen v. OTTO MÜLLER. IX + 294 p. (*Grundriss d. slav. Philol. u. Kulturgesch.* Hrsg. v. REINH. TRAUTMANN u. MAX VASMER.) Berlin, DE GRUYTER, 1929. ISIS

Reviewed by C. PATSCH, *DLZ*, 2, 2288-95, 1931.

Weinberger, Otto. Mathematische Volkswirtschaftslehre. XIV + 241 p., 70 fig. Berlin, TEUBNER, 1930. ISIS

Reviewed by R. M. B., *Revue générale des sciences*, 42, 479, 1931.

43. — SOCIOLOGY, JURISPRUDENCE, AND POSITIVE POLITY

Butler, Sir Geoffrey ; Maccoby, Simon. The development of international law. XXXV + 556 p. London, LONGMANS, 1928. ISIS

Calisse, Carlo. A history of Italian law. Translated by LAYTON B. REGISTER. Introductions by FREDERICK PARKER WALTON and HESSEL E. YNTEMA. LIX + 827 p. (*The Continental Legal History Series*, pub. under the auspices of the Association of American Law Schools, 8). London, MURRAY, 1928. ISIS

Calvert, Eric Roy. Capital punishment in the twentieth century. Introduction by Lord BUCKMASTER. London, PUTNAMS, 1927. ISIS

Cardozo, Benjamin Nathan. Paradoxes of legal science. V + 142 p. New York, Columbia University Press, 1928. ISIS

Cornil, P. Commentaire de la loi belge du 9 avril 1930, de défense sociale à l'égard des anormaux et des délinquants d'habitude. *Revue mensuelle de l'Œuvre Nationale de l'Enfance*, 28 p., 1931. ISIS

Engelmann, Géza. Political philosophy from PLATO to JEREMY BENTHAM. Translated by KARL FREDERICK GEISER, with introduction by OSCAR JÁSZI. XXIV + 398 p. New York, HARPER, 1927. ISIS

Reviewed by F. W. COKER, *American Historical Review*, 33, 622-23, 1928.

Gregory, John Walter. Human migration and the future, a study of the causes, effects, and control of emigration. 218 p., pl., maps. London, SEELEY, SERVICE, 1928. ISIS

Hampe, Theodor. Crime and punishment in Germany, as illustrated by the Nuremberg Malefactors' Books. Translated, with an introduction based on WM. SMITH's " Breeff Description of Norenberg " (1594), by MALCOLM LETTS. VIII + 175 p. London, ROUTLEDGE, 1929. ISIS

Holdsworth, William Searle. The historians of Anglo-American law. 175 p. New York, Columbia University Press, 1928. ISIS

Keith, Sir Arthur. The place of prejudice in modern civilization (Prejudice and politics) : being the substance of a rectorial address to the students of Aberdeen University. 54 p. London, WILLIAMS and NORGATE, 1931. ISIS

Reviewed by J. A. T., *Nature*, 128, 473-75, 1931.

Künssberg, Eberhard Frh. v. Rechtssprachgeographie. Mit einer Grundkarte und 20 Deckblättern. 49 p. *Sitzungsberichte der Heidelberger Akademie der Wissenschaften*, philosophisch-historische Klasse, Jahrgang 1926-27. 1. Abhandlung, 1926. ISIS

Morris, Richard Brandon. Studies in the history of American law with special reference to the seventeenth and eighteenth centuries. 285 p. New York, Columbia University Press, 1930. ISIS

Reviewed by J. H. BEALE, *American Historical Review*, 921-22, 1930.

Pomerai, Ralph de. Marriage, past, present and future : an outline of the history and development of human sexual relationships. XVII + 370 p. London, CONSTABLE, 1930. ISIS

Reviewed in *Nature*, 126, 163, 1930.

Vernon, Horace Middleton. The alcohol problem. Preface by Viscount D'ABERNON. XV + 252 p. London, BAILLIÈRE, TINDAL and COX, 1928. ISIS

44. — HISTORY OF CIVILIZATION

(*General history, historical methods, biography, and chronology*)

Hoops, Johannes. Reallexikon der germanischen Altertumskunde. 4 vols. Strassburg, TRÜBNER, 1911-1919. ISIS

Reviewed by MARY C. WELBORN, *Isis*, 16, 176-78, 1931.

Le Bon, Gustave. Bases scientifiques d'une philosophie de l'histoire. 325 p. Paris, FLAMMARION, 1931. ISIS

Reviewed by PHILIPPE TONGAS, *Revue générale des Sciences*, 42, 483, 1931.

Lhéritier, Michel. L'histoire du point de vue international. *Le Livre*, 5, 1-5, Décembre 1931. ISIS

Stillwell, Margaret Bingham. Incunabula and Americana, 1450-1800. A key to bibliographical study. XVIII + 483 p. New York, Columbia University Press, 1931. ISIS

Reviewed by GEORGE SARTON, *Isis*, 16, 178-81, 1931.

45. — HISTORY OF ART

(*Art and science. Iconography. Arts and crafts*)

Andersson, Otto. The bowed-harp. A study in the history of early musical instruments. From the original Swedish edition revised by the author. The translation edited with additional footnotes by KATHLEEN SCHLESINGER. XVIII + 319 p., 116 fig. London, REEVES, 1930. ISIS

Reviewed by CURT SACHS, *DLZ*, 2, 2188-89, 1931.

Dessoir, Max. Beiträge zur allgemeinen Kunstwissenschaft. VIII + 230 p., 3 pl. Stuttgart, ENKE, 1929. ISIS

Reviewed by HERMANN NOACK, *DLZ*, 2, 2469-76, 1931.

Farmer, Henry George. Studies in Oriental musical instruments. First series. VIII + 107 p., 4 pl., 4 illus. London, REEVES, 1931. ISIS

Contents : Foreword; 1. The mediaeval psaltery in the Orient; 2. The origin of the eschaquiel; 3. Two Eastern organs; 4. A North African folk instrument; 5. Ninth century musical instruments; 6. A note on the mizmār and nāy; 7. Meccan musical instruments; 8. The origin of the Arabian lute and rebec.

Frobenius, Leo. Die Kunst Afrikas. *Erdball*, 5, 85-114, 33 fig., 1931. ISIS

Hourticq, Louis. La vie des images. 246 p. in quarto. 397 illus. dessinées par l'auteur, 16 pl. Paris, HACHETTE, 1927. ISIS

Reviewed by GEORGE SARTON, *Isis*, 16, 181-84, 1931.

Schering, Arnold. Aufführungspraxis alter Musik. VIII + 176 p., (*Musikpädagog. Bibl.* Hg. v. LEO KESTENBERG. H. 10.) Leipzig, QUELLE & MEYER, 1931. ISIS

Reviewed by OTTO GOMBOSI, *DLZ*, 2, 2476-82, 1931.

46. — HISTORY OF LANGUAGE, WRITING, AND LITERATURE

Beaulieux, Charles. Histoire de l'orthographe française. T. I : Formation de l'orthographe des origines au milieu du XVIe siècle. T. II. Les accents et autres signes auxiliaires. XX + 366 p. ; X + 134 p. Paris, CHAMPION, 1927. ISIS

Reviewed by C. BRUNNEL, *Bibliothèque de l'école des chartes*, 88, 340-42, 1927

Bianu, Ioan ; Cartogan, N. Album de paleografie romaneasca (Scrierea Chirlica). 35 pl. Bucharest, Socec, 1929. ISIS

Reviewed by SAMUEL H. CROSS, *Speculum*, 5, 326-27, 1930.

Carnoy, Albert Joseph. La science du mot. Traité de sémantique. VII + 426 p. Louvain, Editions Universitas, 1927. ISIS

Reviewed in *Mélanges de l'Université Saint-Joseph*, Beyrouth, 14, 207-08, 1929.

Degering, Hermann. Die Schrift. Atlas der Schriftformen des Abendlandes vom Altertum bis zum Ausgang des 18. Jahrhunderts. XXXVII + 240 p. (Wasmuths Werkkunst-Bücherei 6. Bd.) Berlin, WASMUTH, 1929. (Auch mit englischem Text : Lettering : A series of 240 plates illustrating modes of writing in Western Europe from antiquity to the end of the 18th century. London, BENN, 1929. Mit französischem Text : L'écriture en Occident. Paris, CALAVAS, 1929.) ISIS

Reviewed by ERNST CROUS, *DLZ*, 1, 1633-35, 1930.

Delitsch, Hermann. Geschichte der abendländischen Schreibschriftformen. XLIII + 290 p., 16 pl. Leipzig, HIERSEMANN, 1928. ISIS

Reviewed by ANTON CHROUST, *DLZ*, 1, 193-95, 1930.

Jespersen, Otto. Novial Lexike : International dictionary : Dictionnaire international : Internationales Wörterbuch. 251 p. London, ALLEN and UNWIN, 1930. ISIS

Lévy, Paul. Histoire linguistique d'Alsace et de Lorraine. Deux tomes. 403 p. 563 p. (*Publications de la Faculté des Lettres de l'Université de Strasbourg*, fascicules 47, 48). Paris, Société d'Edition Les Belles Lettres, 1929. ISIS

Reviewed by C. H. C. WRIGHT, *American Historical Review*, 35, 835-36, 1930.

Levy, Raphael. French latine < antenna. *Modern Language Notes*, 459-62, 1931. ISIS

"Most French dictionaries consider *latin* 'lateen,' the same word as that designating the Latin language. They maintain that the sail was called *latine* because it was used in the Mediterranean. To understand the history of the word, it is important to notice that a *voile latine* is a triangular sail suspended to the mast at an angle of about 45° by a yard which, in French, is called *antenne*. It is from a variant form of this very *antenne*, as we shall try to show, that *latine* comes."

Meillet, Antoine. Les langues dans l'Europe nouvelle. Un appendice de L. TESNIÈRE sur la statistique des langues de l'Europe. XII + 495 p. Paris, PAYOT, 1928. ISIS

Nordenskiöld, Erland. Picture writings and other documents by NÈLE, CHARLES SLATER, CHARLIE NELSON and other Cuna Indians. *Comparative Ethnographic Studies*, 7, part 2. 76 p. Göteborg, ELANDER, 1930. ISIS

Reviewed by E. A. PARKYN, *Geographical Journal*, 77, 191-92, 1931. C. W. A.

Paget, Sir **Richard A. S.** Babel : or the past, present and future of human speech. 93 p. (*To-day and to-morrow series*). London, KEGAN PAUL, 1930. ISIS

Pillsbury, Walter Bowers ; Meader, Clarence L. The psychology of language. VII + 306 p. London, APPLETON, 1928. ISIS

Saudek, Robert. Experiments with handwriting. 395 p. London, ALLEN and UNWIN, 1928. ISIS

Thomsen, Vilhelm. Geschichte der Sprachwissenschaft bis zum Ausgang des 19. Jahrhunderts. Kurzgefasste Darstellung der Hauptpunkte. Uebersetzt von HANS POLLAK. 101 p. Halle, NIEMEYER, 1927. ISIS

Reviewed by E. LEWY, *DLZ*, 5, 2095-97, 1928.

Vogels, Heinrich Joseph. Codicum Novi Testamenti specimina, edidit HENR. JOS. VOGELS. 13 p., 54 facs. Bonn, HANSTEIN, 1929. ISIS

Reviewed by ERICH FASCHER, *DLZ*, 1, 1686-87, 1930.

48. — HISTORY OF PHILOSOPHY

(*See also above*, 18. *Philosophy of science*)

Baker, John Tull. An historical and critical examination of English space and time theories from HENRY MORE to Bishop BERKELEY. 90 p. Bronxville, N. Y., Sarah Lawrence College, 1930. ISIS

Contents : I. Introduction; II. HENRY MORE; III. ISAAC BARROW; IV. ISAAC NEWTON; V. JOHN LOCKE; VI. SAMUEL CLARKE; VII. GEORGE BERKELEY; VIII. Conclusion; Bibliography.

Dilthey, Wilhelm. Gesammelte Schriften Bd. VIII : Weltanschauungslehre. *Abhandlungen zur Philosophie der Philosophie*. Hrsg. v.

BERNHARD GROETHUYSEN. XIV + 274 p. Leipzig, TEUBNER, 1931. ISIS

Reviewed by RICHARD HÖNIGSWALD, *DLZ*, 2, 2068-76, 1931.

Lillie, Ralph S. Physical indeterminism and vital action. *Science*, 66, 139-44, 1927. ISIS

Lillie, Ralph S. Science and life. *Journal of Philosophy*, 27, 421-30, 1930. ISIS

Lillie, Ralph S. Types of physical determination and the activities of living organisms. *Journal of Philosophy*, 28, 561-73, 1931. ISIS

Müller-Freienfels, Richard. Allgemeine Sozial- und Kulturpsychologie. XII + 292 p. Leipzig, BARTH, 1930. ISIS

Reviewed by E. MEISTER, *DLZ*, 3, 54-56, 1932.

49. — HISTORY OF RELIGION

(*Science and religion*)

Barnes, Ernest William (Bishop of Birmingham). Should such a faith offend? XXX + 331 p. London, HODDER and STOUGHTON, 1927. ISIS

Buonaiuti, Ernesto. Il Cristianesimo nell' Africa Romana. Bari, LATERZA, 1928. ISIS

Cross, Frank Leslie. Religion and the reign of science. XI + 111 p. (Anglican Library of faith and thought). London, LONGMANS, GREEN, 1930. ISIS

Cuthbert (Father). The Capuchins. A contribution to the history of the Counter-Reformation. In two volumes. Vol. 1, 243 p. Vol. II, 222 p. London, SHEED and WARD, 1928. ISIS

Dearmer, Percy. The legend of hell, an examination of the idea of everlasting punishment. With a chapter on the Apocalyptic. London, CASSELL, 1929. ISIS

Dufourcq, Albert. Histoire ancienne de l'Eglise. Tome 1, Les religions païennes et la religion juive comparées. XX + 438 p., Paris, 1923 ; tome 2, La révolution religieuse ; JÉSUS, 474 p., 1926 ; tome 3, Le christianisme primitif, SAINT PAUL, SAINT JEAN, SAINT IRÉNÉE, III + 352 p., Paris, BLOUD, 1928. ISIS

Reviewed by AIMÉ PUECH, *Journal des savants*, 193-201, 1930.

Hertz, Robert. Mélanges de sociologie religieuse et de folklore. Preface by ALICE ROBERT HERTZ. XVI + 252 p. Paris, ALCAN, 1928. ISIS

Reviewed by P. A., *Revue de l'histoire des religions*, 99, 330, 1929.

Houtin, Albert. Courte histoire du célibat ecclésiastique. Préface par F. SARTIAUX. 268 p. Paris, RIEDER, 1929. ISIS

Reviewed by P. A., *Revue de l'histoire des religions*, 99, 121, 1929.

Kidd, Beresford James. The churches of Eastern Christendom from A.D. 451 to the present time. 541 p. London, Faith Press, 1927. ISIS

Knowles, George William. Quakers and peace. With an introduction and notes. III + 52 p. (*Grotius Society Publications.*) 52 p. London, SWEET and MAXWELL, 1927. ISIS

Langdon, Stephen H. Semitic mythology. XX + 454 p. (*The mythology of all races*, vol. 5.) Archaeological Institute of America, 1931. ISIS

Montefiore, Claude Joseph Goldsmid. Speculum religionis : being essays and studies in religion and literature from PLATO to VON HÜGEL, with an introduction by F. C. BURKITT : presented by the members of the staff of University College, Southampton, to their president, CLAUDE G. MONTEFIORE. VIII + 216 p. Oxford, Clarendon Press, 1929. ISIS

Reviewed by F. N. ROBINSON, *Speculum*, 5, 236-37, 1930.

More, Paul Elmer. Christ the Word. (The Greek tradition. vol. 4. From the death of SOCRATES to the council of Chalcedon, 399 B.C. to A.D. 451). VIII + 343 p. Princeton, University Press, 1927. ISIS

Rahn, Carl. Science and the religious life. A psycho-physiological approach. IX + 221 p. New Haven, Yale University Press, 1928. ISIS

Sanctis, Sante de. Religious conversion : a bio-psychological study. Translated by HELEN AUGUR. (International Library of Psychology, Philosophy and Scientific Method.) V + 324 p. London, KEGAN PAUL, 1927. ISIS

Shotwell, James T. ; Loomis, Louise Ropes. The see of PETER.

XXVI + 737 p. (Records of civilization.) New York, Columbia University Press, 1927. ISIS

Reviewed by FRANCIS A. CHRISTIE, *American Historical Review*, 33, 848-49, 1928.

Slosser, Gaius Jackson. Christian unity. Its history and challenge in all communions, in all lands. With introductions by WILLIAM TEMPLE and ALFRED E. GARVIE. XX + 425 p. London, KEGAN PAUL, 1929. ISIS

Smith, Hannah Whitall. Religious fanaticism. Extracts from her papers. Edited with an introduction by RAY STRACHEY. Consisting of an account of the author of these papers, and of the times in which she lived ; together with a description of the curious religious sects and communities of America during the early and middle years of the nineteenth century. IX + 276 p. London, FABER and GWYER, 1928. ISIS

Streeter, Burnett Hillman. The primitive church. Studied with special reference to the origins of the Christian ministry. XII + 312 p. (The Hewett Lectures, 1928.) London, MACMILLAN, 1929. ISIS

Reviewed by H. V. CAMPENHAUSEN, *DLZ*, 1, 145-49, 1930.

Weale, William Henry James. Bibliographia liturgica. Catalogus missalium ritus latini ab anno 1474 impressorum. Iterum edidit H. BOEATTA. XXXII + 380 p. London, QUARITCH, 1928. ISIS

Wood, Alexander. In pursuit of truth : a comparative study in science and religion. 122 p. London, S. C. M., 1927. ISIS

Yamakami, Sogen. Systems of Buddhistic thought. LVI + 315 p. Calcutta, University Press, 1912. ISIS

VII. MEDICINE

50. — HISTORY, ORGANIZATION, AND PHILOSOPHY OF MEDICINE

Albasini, P. Costanzo. Medici frati et frati medici. *Boll. Ist. Stor. Ital. Arte Sanit.*, 11, 15-29, 1931. ISIS

Castiglioni, Arturo. Histoire de la médecine. Edition française établie par les soins de l'auteur. Traduction par J. BERTRAND,

agrégée de l'Université et F. GIDON. 781 p., 279 gravures. Paris, PAYOT, 1931. ISIS

Reviewed by GEORGE SARTON, *Isis*, 16, 468-71, 1931.

Delaunay, Paul. Une dynastie de médecins bretons. LES DE LA BIGNE DE VILLENEUVE. *Bulletin de la Société Française d'Histoire de la Médecine*, 25, 413-61, 1 facs., 1931. ISIS

Garrison, Fielding H. An epitome of the history of Spanish medicine. *Bull. N. Y. Acad. Med.*, 7, 589-634, 1931. ISIS

Important general and biographical discussion, with chronology. The effects of geographical and linguistic characteristics are interestingly traced. The discussion also includes Portugese and Latin American medicine. Over 100 thumbnail biographical sketches are incorporated. A brilliant survey. C. D. L.

Garrison, Fielding H. An outline of the history of the circulatory system. *Bull. N. Y. Acad. Med.*, 7, 781-806, 1931. ISIS

Especially valuable for its post-Harveian detail. C. D. L.

Garrison, Fielding H. Russian medicine under the old regime. *Bull. N. Y. Acad. Med.*, 7, 693-734, 1931. ISIS

In the brilliant style which has made his great *History of Medicine* so successful, the author here epitomizes the history of Russian medicine. The influence of English physicians is emphasized. Brief biographical sketches of 96 individual contributors are hung against a chronological background of the main cultural movements in the nation's history. C. D. L.

Haggard, Howard W. Medicine through the ages. *Dental Cosmos*, 73, 223-34, 1931. ISIS

Hallier-Schleiden, H. Der Heilkünstler ASKLEPIOS auf der Wanderschaft. *Ärztliche Rundsch.*, 41, 125, 1931. ISIS

Reviewed by MARZELL, *Mitteilungen zur Geschichte der Medizin und der Naturwissenschaften*, 30, 268, 1931.

His, W. Zum 50-jährigen Bestehen des Vereins für innere Medizin in Berlin. *Dtsch. med. Wschr.*, 57, 641-43, 1931. ISIS

Hund, Reid. Promotion of medicine and pharmacy. *Science*, 72, 49-58, 1931. ISIS

Jeanselme, Edouard. Histoire de la syphilis. 432 p. Paris, DOIN, 1931. ISIS

Reviewed by P. DELAUNAY, *Revue d'Histoire de la Pharmacie*, 19, 127-28, 1931.

Liječnički vijesnik. Hist. of med. number, 19, Nr. 4, 1931. (Serbo-croatian, except for the Slovenian paper of PINTAR.) ISIS

Contents : SIGERIST, H. E. : L'histoire de la médecine et son importance pour notre époque. — BARLÈ, CHAN J. : Quelques réminiscences sur « l'Hôpital des fondations » à Zagreb. — FANCEV, F. : La succession d'un médecin varaždinois du début du XVIIe siècle. — KEMPF, J. : Des petites descriptions historico-sanitaires du passé de la ville de Požega. — HORVAT, R. : Médecins d'état croate au XVIIIe siècle. — ĆOROVIĆ, V. : Les hôpitaux en Serbie des XIIIe et XVIe siècles. — STANOJEVIĆ, L. : La maladie de KARAGJORGJE en 1813. — ŠEVIĆ, A. S. : Le Docteur CONSTANTIN PEJIČIĆ, l'auteur du premier livre médical original serbe. — ZAVRNIK, F. L. : Quelques mots sur les médecins vétérinaires. — PINTAR, I. : Les prof. Dr. KERN et Dr. LIPIĆ. — ŠIŠIC, F. : La peste à Split en 1348. — NOVAK, G. : Les médecins, chirurgiens et barbiers de la ville autonome de Split. — KÖRBLER, J. : La peste en Dalmatie en 1783. — MATASOVIĆ, J. : Moines bosniaques qui « guérissent les malades » et les musulmans. — FLEGER, J. : LÉOPOLD GLÜCK. — ŠIK, L. : Les médecins juifs en Yougoslavie. — THALLER, L. : Les buts de l'histoire de la médecine de notre territoire national.

Mello, Froilano de. History of medicine in Portuguese India. *Arq. da Esc. Med.-Cirurg. de Nova Goa*, no. 3, 723-30, 1930. ISIS

Attempts to diffuse medical knowledge among natives futile until MIRANDA E ALMEIDA arrived from Coimbra in 1801 and established a three year course in medicine and surgery taught by himself. C. D. L.

Power, Sir D'Arcy. Selected writings, 1877-1930. x + 368 p., 16 pls., 1 map, 9 figs. Oxford, University Press, 1931. ISIS

Reviewed by CHARLES A. KOFOID, *Isis*, 16, 471-72, 1931.

Sigerist, Henry Ernst. Die St. Galler Handschriften und ihre Bedeutung für die Überlieferung der antiken Medizin. *Verh. Schweiz. Naturf. Ges.*, 111, 372-73, 1930. ISIS

Šik, Lavoslav. Jüdische Ärzte in Jogoslavien. 52 p., 11 pl. Osijek, SEKLER, 1931. ISIS

Vorkastner, W. Über Werden und Wesen der gerichtlichen Medizin. *Klin. Wschr.*, 10, 738-53, 1931. ISIS

Walker, M. E. M. Pioneers of public health. The story of some benefactors of the human race. With a foreword by Sir HUMPHRY ROLLESTON. XVI + 270 p., 23 pls. New York, MACMILLAN, 1930. ISIS

Reviewed by CHARLES A. KOFOID, *Isis*, 16, 472-74, 1931.

51. — EPIDEMIOLOGY, HISTORY OF SPECIAL DISEASES. PUBLIC HEALTH AND SOCIAL MEDICINE

Anthony, L. Pierce. The influence of the South in the development of dentistry in America. *Dental Cosmos*, 73, 359-69, 468-81, 1931. ISIS

Artelt, Walter. Arzt und Leibesübungen in Mittelalter und Renaissance. I. Mittelalter. *Klin. Wschr.*, 10, 846-49, 1931. ISIS

Baumann, E. D. Ueber die Erkrankungen der Leber im klassischen Altertum. *Janus*, 35, 153-68, 185-206, 1931. ISIS

Bilancioni, Guglielmo. Alcuni spunti sulla storia del nistagmo. *Atti della clin. oto-rino-laringoiatrica della R. Univ. di Roma*, 27 p., 6 fig., Roma, 1930. Also : *Boll. Ist. Stor. Ital. Arte Sanit.* 11, 1-14, 1931. ISIS

Bologa, Valeriu L. Von der Babylonischen Labartu über Arab. Karina zum Krankheitsbegriff Samca in der Rumänischen Volksmedizin. *Janus*, 35, 1-16, 6 pl., 1931. ISIS

Bonuzzi, Silvio. I parti umani poligemellari a traverso i secoli. *Riv. stor. sci. med. e natur.*, 22, 94-97, 1931. ISIS

Burkart, F. ; Vorberg, G. ; Seckendorf, E. Der Streit um den Ursprung der Syphilis. *Med. Welt*, 5, 905-07, 1931. ISIS

Reviewed by HABERLING, *Mitteilungen zur Geschichte der Medizin und der Naturwissenschaften*, 30, 277, 1931.

Carson, Herbert W. The iliac passion. *Annals of Medical History*, 3, 638-49, 1931. ISIS

Relating the slow groping toward the idea of acute intestinal obstruction. C. D. L.

Chmela, Th. Pestheilige. *Sudetendeutsche Zeitschrift für Volkskunde*. 3, 277, 1930. ISIS

Doubleday, F. N. Some notes on English dentistry in the eighteenth and early nineteenth centuries. *Proceedings of the Royal Society of Medicine*, 24, 1067-68, 1931. ISIS

DOUBLEDAY reviews briefly the history of dentistry in England, calling attention to the first book in English on the subject by CHARLES ALLEN, Dublin, 1687; the influence of the Frenchman, PIERRE FOUCHARD, on JOHN HUNTER's work on the teeth; the early lectures on dentistry at Guy's Hospital (1799); JOSEPH FOX's *The natural history of the human teeth*, London, 1803;

THOMAS BELL's *Anatomy and diseases of the teeth*, London, 1829 and, especially, the work of JOHN TOMES of the Middlesex Hospital. His book, *Dental physiology and surgery*, London, 1848, is valuable; TOMES founded the Odontological Society in 1857, only to be opposed by SAMUEL RYMER, founder of the College of Dentists of England, the same year. H. R. V.

(Dentistry). Kulturgeschichtliche Beiträge aus dem Forschungs-Institut für Geschichte der Zahnheilkunde des Reichsverbandes der Zahnärzte Deutschlands E. V. Leiter CURT PROSKAUER. *Zahnärztl. Mitt.*, 22, 393-98, 1931. ISIS

Reviewed by ARTELT, *Mitteilungen zur Geschichte der Medizin und der Naturwissenschaften*, 30, 283, 1931.

Martin, Alfred u. Clemm. Aus der ärztlichen Praxis vom 15. bis zum 18. Jahrhundert. (Ein Beitrag zur Harndiagnostik). *Münch. Med. Wschr.*, 78, 594-95, 1 fig., 1931. ISIS

Norman, Hubert J. Some factors in the reform in the treatment of the insane. *Proceedings of the Royal Society of Medicine*, 24, 1068-74, 1931. ISIS

In a short review NORMAN points out that it must not be supposed that the treatment of the insane was everywhere of the kind against which PINEL and TUKE started their crusade. There were enlightened persons with humane conceptions even before the revolution in psychiatry begun by the two leaders of the late eighteenth century. MORGAGNI and VINCENZO CHIARUGI both advocated mild and rational treatment; even at the Bethlem Hospital in London things were not quite so bad in 1783 as they became afterwards, if we can judge by the report of Rev. THOMAS BOWEN in his book published on that date. On the continent, JOSEPH DAQUIN (1733-1815) of Chambéry began reform before PINEL. His work has recently been recognized by SEMELAIGNE, *Les pionniers de la psychiatrie française*, Paris, 1930. The work of Lord SHAFTESBURY on legal regulation and supervision (Acts of Parliament, 1828 and 1845) is noted also by NORMAN in his important paper. H. R. V.

Regnault, Félix. Les Huacos du Musée de Madrid. *Aesculape*, 21, 131-40, 10 fig., 1931. ISIS

Rieck, Wilhelm. 400 Jahre deutsche Veterinärdrucke. *Berliner Tierärztl. Wschr.*, 47, 254, 1931. ISIS

Rieck, Wilhelm. Persische Veterinärmanuskripte. *Vet.-histor. Mitt.*, 11, 21-22, 1931. ISIS

Romberg, Ernst v. Die Herzkrankheiten und ihre Behandlung in den letzten 50 Jahren (Leyden-Vorlesung zum 50-jährigen Bestehen

des Berliner Vereins für innere Medizin.) *Dtsch. med. Wschr.*, 57, 611-14, 667-70, 708-10, 1931. ISIS

Sturmer, J. W. The modern sun cult. *Annual Report of the Smithsonian Institution*, 191-206, 1 fig., 1930. ISIS

One of a series of popular science lectures given at the Philadelphia College of Pharmacy and Science, 1929 season. Reprinted from the *American Journal of Pharmacy*, 102, February, 1930.

Teleky. Industrielle Entwicklung und Gesundheit. *Med. Welt*, 5, 646-48, 1931. ISIS

Thomson, Sir St. Clair. The historical evolution of otolaryngology. *Proceedings of the Royal Society of Medicine*, 24, 1074-80, 1931. ISIS

THOMSON calls attention to SEKHET'ENANCH, medical adviser of King SAHURA and probably the pioneer physician in rhinology. The work of HIPPOCRATES on vocalization and articulation, CELSUS on ozaena, ANTYLLUS on tracheotomy and GALEN on the anatomy and physiology of the nose are briefly reviewed, together with an account of the beginnings of modern oto-laryngology with CONRAD VICTOR SCHNEIDER (1655), BOZZINI (1809), BENJAMIN BABINGTON (1829), LISTON (1837), and BAUMES (1838). Particular notice is given to MANUEL GARCIA (1854), who first saw the vocal chords, during life, reflected in a mirror, TÜRCK (1857), who saw the possibility of employing a third mirror in investigating disease of the larynx, and CZERMAK (1858), who developed the technique and made laryngoscopy a practical proposition. Laryngology was officially recognized by a professorship being created for TÜRCK in 1867. Modern English laryngology begins with MORELL MACKENZIE (1860-1880). THOMSON's short account of the subject is excellent.
H. R. V.

Vorwahl, Heinrich. Das Salz in der Volksmedizin. *Münch. med. Wschr.*, 78, 595-96, 1931. ISIS

Weinberg, S. J. Gigantism and acromegaly (hyperpituitarism). *Annals of Medical History*, 3, 650-73, 1931. ISIS

Excellent historical survey with bibliography. C. D. L.

Weyde, A. J. van der. De behandeling der krankzinnigen in vroeger tijd te Utrecht. *Bijdragen tot de geschiedenis der geneeskunde*, 11, 265 -77, 3 fig., 1931. ISIS

Wolter, Friedrich. Die Nebelkatastrophe im Maastal südlich von Lüttich. *Klin. Wschr.*, 10, 785-88, 1931. ISIS

Wong, K. Chimin. The early history of leprosy in China. *China Med. J.*, 44, 739-43, 1930. ISIS

Earliest reference which must be accepted as authentic is in the Chow dynasty, 6th century B.C. There is a good account in CHAO's *Pathology*, A.D. 610. Chaulmoogra oil is discussed by the 14th century. C. D. L.

52. — HISTORY OF HOSPITALS AND OF MEDICAL TEACHING

Doninck, A. van. Verplegingsoord van geesteszieken te Gheel : de ziekenkamer. *Bijdragen tot de geschiedenis der geneeskunde*, 11, 293-301, 5 fig., 1931. ISIS

Jung, P. Das Infirmarium im Bauriss des Klosters von St. Gallen v. J. 820. *Verh. Schweiz. Naturf. Ges.* 111, 373-74, 1930. ISIS

Neugebauer, Karl. Abriss der Geschichte des evangelischen Spitals in Warschau. *Medycyna*, Nr. 7-12, 1931 (Polish). ISIS

Reviewed by JOSEF FRITZ, *Mitteilungen zur Geschichte der Medizin und der Naturwissenschaften*, 30, 287, 1931.

Riecke. Entwicklung und Ziele der ärztlichen Fortbildung. *Dtsch. Ärztebl.*, 60, 249-51, 1931. ISIS

Robinson, Victor. Questions and answers in medical history—III. *Medical Life*, 659-97, 1931. ISIS

Sigerist, Henry E. Der Arzt und die Umwelt. *Dtsch. med. Wschr.*, 57, 1049-51, 1931. ISIS

53. — PHARMACY. PHARMACOLOGY. TOXICOLOGY

Douglas, Norman. Paneros, some words on aphrodisiacs and the like. 103 p. London, CHATTO and WINDUS, 1931. ISIS

Kremers, Edward. Modes of administration. *Proc. Wisc. Pharm. Assoc.*, 1931. ISIS

In place of the older attempts at a quasi scientific classification which have long outlived their usefulness, the author suggests an alphabetical arrangement. Recognizing the arbitrariness of such an order, he insists that it should be supplemented by an introduction revealing the evolution of the different classes of Galenical preparations and modes of administration. E. K.

Kremers, Edward. WM. HENRY LEWIS. *Journ. American Pharmac. Assoc.*, 20, 1204-09, 1931. ISIS

WM. HENRY LEWIS, 1714-1781. A collection of biographical and bibliographical data about this prolific author and his publications. Attention

is called to the scarcity of even the most essential biographical and bibliographical data in so-called histories of pharmacy. E. K.

Kunz-Krause, H. Die Mohren-Apotheke zu Dresden im Wandel der Zeiten. *Pharm. Ztg.*, 75, 2 p., 2 fig., 1930. ISIS

Lewin, Louis. Phantastica : narcotic and stimulating drugs, their use and abuse. Translated from the second German edition by P. H. A. WIRTH. XI + 335 p. London, KEGAN PAUL, 1931. ISIS

VIII. EDUCATION

(the methods of accumulating, imparting and diffusing knowledge)

54. — EDUCATION

(*Generalities, methods, colleges, universities*)

Adams, Charles C. The importance of establishing natural history reservations for research and education. *New York State Museum Bulletin*, no. 288, 51-59, 1931. ISIS

Curtis, Francis D. Second digest of investigations in the teaching of science, including chiefly the research investigations published from 1925 through 1930. XX + 424 p. Philadelphia, BLAKISTON, 1931 ($ 3.00). ISIS

The greater part of the book is devoted to current practices in the teaching of the sciences, largely in the high schools and elementary courses in colleges and universities, with special reference to methods and objections.
C. A. K.

Heal, Ambrose. The English writing-masters and their copybooks, 1570-1800. A biographical dictionary and a bibliography. With an introduction on the development of handwriting by STANLEY MORISON. Illustrated with portraits of the masters and specimens of their hands. XL + 225 p., 81 pl. Cambridge, University Press, 1931. ISIS

Institut de France. Centenaire de l'Ecole Centrale des arts et manufactures (Paris, 26 mai 1929). Discours de MM. E. PICARD, L. GUILLET, MAURICE DONNAY, ALFRED BAUDRILLART. *Recueil des publications diverses de l'Institut*, no. 11, 1929. ISIS

Keussen, Hermann. Die Matrikel der Universität Köln. Bd. 3. 1103 p. (*Publikat. d. Ges. f. Rhein. Geschichtskde.* 8). Bonn, HANSTEIN, 1931. ISIS

Reviewed by HABERLING, *Mitteilungen zur Geschichte der Medizin und der Naturwissenschaften*, 30, 257, 1931.

Maisin, Joseph. L'université de Louvain à travers les siècles. *La science médicale pratique*, no. 2, Paris, 1931. ISIS

56. — BIBLIOGRAPHY
(*Methods, libraries*)

Ferguson, Mungo. The printed books in the library of the Hunterian Museum in the University of Glasgow. A catalogue prepared by MUNGO FERGUSON. With a topographical index by DAVID BAIRD SMITH. XXIII + 396 p. Glasgow, JACKSON, WYLIE, 1930. ISIS

Milkau, Fritz (ed.). Handbuch der Bibliothekswissenschaft. I. Bd. : Schrift und Buch. Bearb. v. HANS SCHNORR V. CAROLSFELD, ALOYS BÖMER, ALBERT BOECKLER, KARL LÖFFLER, KARL PREISENDANZ, ERICH VON RATH, JULIUS RODENBERG, HANS WEGENER, MAX JOSEPH HUSUNG, ERNST KUHNERT, GEORG SCHNEIDER, AXEL VON HARNACK. XIX + 876 p., 125 fig. Leipzig, HARRASSOWITZ, 1931. ISIS

Reviewed by ISAK COLLIJN, *DLZ*, 2, 2353-58, 1931.

Mumby, Frank Arthur. Publishing and bookselling. A history from the earliest times to the present day. With a bibliography by W. H. PEET. XII + 480 p. London, CAPE, 1930. ISIS

Streeter, Burnett Hillman. The chained library : a survey of four centuries in the evolution of the English library. 93 illus. London, MACMILLAN, 1931. ISIS

57. — MUSEOLOGY
(*Museums and collections*)

Adams, Charles C. The public functions of the Division of Science and State Museum. *New York State Museum Bulletin*, no. 288, 61-70, 1931. ISIS

Ruedemann, Rudolf ; Goldring, Winifred. Some museum methods developed in the New York State Museum. *New York State Museum Bulletin*, no. 288, 71-75, 1 fig., 7 pl., 1931. ISIS

Salmony, Alfred. Museums on the Volga and in the Ukraine. Translated by GEORGE J. HEXTER. *Parnassus*, 4, 30, 39, 2 fig., 1932. ISIS

Sarton, George. The whaling museums of New Bedford and Nantucket. *Isis*, 16, 115-23, 1931. ISIS

IX

59. — ERRATA. SERIES 24

(*For previous errata, see* Isis, 18, 420)

Vol. 17, p. 156, § 4, l. 5. Read " but that side at least."
p. 159. Supprimer la note (2).
p. 171, l. 5 from bottom. Read physiologie instead of physionomie.
p. 282, l. 5. Read khairun instead of khairum.

A few other misprints are not mentioned in these errata because they are too obvious to cause any error or confusion. I wish to express my thankfulness to the readers who take the trouble to make the above-mentioned corrections in their set of *Isis* and the Introduction. I would advise them, after having accomplished that little task, to write their initials near mine at the bottom of this note, thus to indicate that these and the previous errata have been taken into account.

G. S.

These and the previous errata have been corrected by...

Index of Authors Included in the Thirty-fourth Bibliography

The Roman figures refer to centuries ; the Arabic figures, to the sections of Parts II and III, which are numbered consecutively from 1 to 59. This index will enable one to find more easily the papers analyzed in the present bibliography, and also to see at a glance what each writer is doing.

April 1932. FRANCES SIEGEL.

A

Adams, C. C., 54, 57.
Agostini, A., XVIII (1) A.
Albasini, P. C., 50.
Ali, M., VII (1).
Alliaume, M., XIX (1) A.
Almagià, R., 31.
Ames, J. S., XIX (1) B.
Andel, M. A. van, XVII (1) D.
Andersen, R., 23.
Andersson, O., 45.
André, G., XIX (2) C.
Anthony, L. P., 51.
Archibald, R. C., 20.
Aristotle, IV (2) B. C.
Artelt, W., 51.
Asín Palacios, M., XI (1), XIII (1).
Audisio, F., 20.
Augustine, St., V (1).
Autolykos, 23.
Avalon, J., VI (1).
Averroès, XII (2).

B

Babcock, H. D., 24.
Bacot, J. VII (1).
Baechtold-Stäubli, H., 41.
Bailey, K. C., I (2).
Baker, J. T., 48.
Balss, H., XIX (1) C.
Balzli, H., XII (1).
Barnes, E. W., 49.
Baumann, E. D., 51.
Beaulieux, C., 46.
Beauverie, J., XIX (2) C.
Becker, K., 41.
Becker, M. J., XIV (2).
Beckman, H., 40.
Beeson, B. B., XIX (2) D.
Bérard, V., IX B.C.
Berger, J. A., XVIII (2) D.
Bergmann, H., XVIII (2) A.
Bernardinis, L. de, 21.
Bernhard, O., 1.
Bertrand, G., 25.
Bertrand, M., XIX (2) C.

Beyer-Fröhlich, M., XVI (1) E.
Bianu, I., 46.
Biggar, H. P., XVI (1) E.
Bigourdan, G., 23.
Bilancioni, G., 51.
Bloch, M., 25.
Boccardi, J., 23.
Böhme, J., IX B.C.
Boerschmann, E., 10
Boethius, V (1).
Bogoras, W. G., 40.
Bohr, N., 24.
Boldrini, M., 21.
Bologa, V. L., 51.
Bolzano, B., XIX (1) B.
Bontius, J., XVII (1) D.
Bonuzzi, S., 51.
Bord, B., 3.
Bortolotti, E., XIII (1), XVIII (1) B, XVIII (2) A, XIX (1) A, XX A, 20.
Boulton, W. H., 26.
Boussac, P. H., 2.
Brackett, F. S., 28.
Brasch, F. E., XVIII (1) E.
Brater, E., XVIII (1) C.
Brauchle, A., 37.
Braun, M., XX C.
Bray, G. W., 27.
Breithaupt, G., 26.
Brögger, A. W., 6.
Broglie, L. de, 24.
Brown, P. A., XII (2).
Buber, M., 12.
Budge, Sir E. A. W., 2.
Bugge, G., 25.
Buhl, F., VII (1).
Buonaiuti, E., 49.
Buren, A. W. van, 4.
Burkart, F., 51.
Burkitt, M. C., 35.
Burn, A. R., 1.
Buron, E. J. P., XIV (2).
Buschan, G., 41.
Busse-Wilson, E., XII (1).
Butcher, R. W., XIX (1) B.
Butler, Sir G., 43.

C

Calderini, A., 2.
Calisse, C., 43.
Calvert, E. R., 43.
Canaan, T., 12.
Capart, J., 2.
Capparoni, P., XVII (1) D.
Cardozo, B. N., 43.
Carnoy, A. J., 46.
Carson, H. W., 51.
Cartogan, N., 46.
Casarini, A., XVIII (2) D.
Castiglioni, A., XVII (1) D, XX D, 50.
Caulfield, E., XVIII (1) D.
Cavazzoni, L., III (2).
Cazemier, L. J., 2.
Černy, J., 2.
Chapot, V., 1.
Chapuis, A., 26.
Chemnitius, F., 25.
Chmela, T., 51.
Choisy, F. T., XVII (2) E.
Clark, E. K., 26.
Cloché, P., 4.
Close, Sir C., 31.
Cochrane, C. N., V B.C.
Cohen, G., 6.
Cohen, M. R., 18.
Cohn, A., 27.
Cole, F. J., 29.
Collard, A., XX B.
Compter, H., XIX (2) C.
Comte, A., XIX (1) E.
Conger, G. P., 16.

Contenau, G., 1.
Cornil, P., 43.
Crandall, S. S., 29.
Cravener, E. K., XII (2).
Creutz, R., XI (1), XI (2).
Cridler-Segonne, L., XVIII (2) E.
Cross, F. L., 49.
Cūlavaṃsa, 9.
Cunliffe, R. J., IX B.C.
Curtis, F. D., 54.
Cuthbert (Father), 49.

D

Dagen, G., XVIII (1) D.
Dalton, E. W., XIX (1) C.
Dantzig, T., 20.
Darmstaedter, E., XIX (1) E.
Davenport, C. B., 27.
David-Neel, A., 8.
Davies, N. De G., 2.
Davis, T. L., 25.
Dawson, W. R., XIX (1) D.
Dearmer, P., 49.
Dedekind, R., XIX (2) A.
Degering, H., 46.
Delaunay, P., 50.
Delitsch, H., 46.
Demoor, J., 36.
Dentz, F. O., XIX (2) D.
Dept, G. G., 33.
Dermenghem, E., VII (1).
Dessoir, M., 45.
Didier, L., 32.
Dieudonné, A., XIX (2) D.
Dihle, H., XIX (1) D.
Dilthey, W., 48.
Doerpfeld, W., IX B.C.
Doninck, A. van, 52.
Doubleday, F. N., 51.
Douglas, N., 53.
Drecker, J., XI (1).
Drewitt, F. D., XVIII (2) D.
Dubar, L., XVIII (2) D.
Dubs, H. H., IV (2) B.C.
Dufourcq, A., 49.
Duméril, H., XIX (1) E.
Dupont-Ferrier, G., 6.
Duthuit, G., 2.
Dyck, W. v., XVII (1) B.

E

Ebstein, E., XVIII (2) D.
Eddington, A. S., 24.
Edgerton, F., 9.
Eliade, M., 9.
Emanuelli, P., XVII (1) B, 5.
Engelmann, G., 43.

F

Färber, E., XIX (1) C, XIX (2) A, 25.
Fairchild, H. P., 21.
Fairclough, H. R., 1.
Fargin-Fayolle, P., XX D.
Farmer, H. G., 6, 45.
Farrington, B., IX B.C.
Favre, A., XVIII (1) B.
Feavearyear, A. E., 42.
Feldhaus, F. M., 26.
Ferchl, F., 25.
Ferguson, J., XVI (2) D.
Ferguson, M., 56.
Fettweis, E., 20.
Feyfer, F. M. G. de, XVI (1) D.
Fischer, A., XIX (1) D.
Fischer, H., XV (1), 6.
Fischer, N., 31.
Fladt, K., XIX (1) A.
Fleure, H. J., 39.
Fobes, F. H., IV (2) B.C.
Forbes, V. S., 23.

Ford, W. H. de, XIX (2) D.
Fox, C., 26.
Fraenkel, A., XIX (2) A.
Franchet, L., V (1).
Franchini, J., XVIII (1) C.
Franklin, K. J., XVIII (2) D.
Frazer, Sir J. G., 4.
Frédéricq, L., 36.
Friedel, D., XVIII (1) D.
Fritz, J., XVI (1) D, XVI (2) D.
Frobenius, L., 40, 45.
Froehner, R., XIV (1), XVIII (2) D.
Fulton, J. F., XVII (1) C, 36.
Furlani, G., 3.

G

Galen, II (2).
Galilei, XVII (1) B.
Gandz, S., 20.
Gardiner, E. N., 1.
Gardner, C. S., 10.
Garrison, F. H., 50.
Garry, J. G., 2.
Gebauer, C., XVIII (1) D.
Gélis, E., 26.
Genty, XVIII (2) D.
Georgii, W., 26.
Gerlach, K., 35.
Gerstinger, H., 4.
Gini, C., 21.
Ginzburg, B., 16.
Girardet, F., XVI (1) B.
Goldring, W., 57.
Goodland, R., 40.
Goossens, R., V (1).
Graham, W. C., XIII (2).
Grande, C. del, 2.
Gray, C. C., 26.
Greeff, R., 26.
Gregorio, S., XVI (1) C.
Gregory, J. W., XIX (1) C, 26, 43.
Greig, J. Y. T., XVIII (2) E.
Grillot de Givry, E. A., 41.
Grubb, Sir H., XIX (2) B.
Günther, H. F. K., 35.
Guerra, G. del, XIV (1), XV (1).
Gutmann, M., V B.C.

H

Hadding, A., 32.
Hagen, H. F., 26.
Haggard, H. W., 50.
Hallier-Schleiden, H., 50.
Hampe, T., 43.
Hautecœur, L., 14.
el-Hawary, H. M., VII (2).
Hayashi, T., 11.
Heal, A., 54.
Heath, Sir T. L., 4.
Hedin, S., 8.
Helbronner, P., XVII (2) A.
Hellman, C. D., XVIII (2) B.
Herrmann, L., I (2).
Hertz, R., 49.
Herzog, R., IV (1) B.C.
Hettemer, M., XII (2).
Hildegard v. Bingen, XII (2).
Hinton, J., 27.
His, W., 50.
Hobson, A., 28.
Hofmann, J. E., XVIII (2) A.
Hohenheim, T. v., XVI (1) D.
Hohlwein, N., 2.
Holdsworth, W. S., 43.
Holländer, E., XIX (1) D.
Holmes, M., XVIII (2) C.
Homburger, O., XII (2).
Hone, J. M., XVIII (1) E.
Hoops, J., 44.
Hourticq, L., 45.
Houtin, A., 49.

Howard, L. O., 29.
Howarth, O. J. R., 16.
Hrotsvitha, X (2).
Hund, R., 50.
Huxley, J. S., 18.
Hyma, A., XVI (1) E.

I

Imms, A. D., 27.
Isachsen, G., 31.
Issa bey, A., 14.

J

Jacks, L. V., IV (1) B.C., XVIII (2) C.
Jeans, Sir J., 23.
Jeanselme, E., 50.
Jeremias, A., 40.
Jespersen, O., 46.
John the Grammarian, VII (1).
Johnston, E. S., 28.
Jorga, N., 31.
Jung, P., 52.
Junge, G., III (2).
Junk, V., 16.
Justus, L., XIX (1) D.

K

Keimer, L., 2.
Keith, Sir A., 35, 43.
Keller, C., XX C.
Kemble, J., XVI (1) D.
Keussen, H., 54.
Keyser, C. J., 16.
Kidd, B. J., 49.
Klausner, J., I (1).
Klebs, A. C., XV (2).
Klinckowstroem, Graf. C. v., 26.
Knowles, G. W., 49.
Köditz, E., 26.
Körner, O., 27.
Kraglievich, L., XIX (1) C.
Kraus, S., 12.
Kremers, E., XVIII (2) D, 53.
Kronecker, L., XIX (2) A.
Krumbhaar, E. B., XIX (1) D.
Kühl, W., XVI (1) D.
Künssberg, E. F., 43.
Kung-Sung, Y., IV (1) B.C.
Kunz-Krause, H., 53.

L

Laistner, M. L. W., 6.
Langdon, G. W., 49.
Lange-Eichbaum, W., 37.
Langevin, P., XX B.
Langmuir, I., 24.
Lassally, O., 41.
Lattimore, O., 8.
Laveran, C. L. A., XIX (2) D.
Le Bon, G., 44.
Le Chatelier, H., XIX (2) C.
Le Fanu, W. R., XV (2).
Lefort, L. T., 2.
Legiardi-Laura, C., XIX (2) E.
Lejeune, F., XVIII (1) D.
Lenard, P., 16.
Le Strange, G., 14.
Lévy, P., 46.
Levy, R., 46.
Lewin, L., 53.
Lewy, J., 8.
Lhéritier, M., 44.
Lillie, R. S., 48.
Lippmann, E. O. v., 25.
Liudprand, X (2).
Lo Bianco, V., XIX (1) D.
Locke, L. L., XIX (2) B.
Lodge, Sir O., 16.
Lodge, R. C., IV (1) B.C.

Loomis, L. R., 49.
Loria, G., 20.
Lot, F., V (2).
Lowery, H., XIX (2) B.
Ludendorff, H., 23.
Lüdemann, K., 26.
Lusk, G., XIX (2) D.

M

MacCallum, W. G., XIX (2) D.
Maccoby, S., 43.
MacCurdy, G. G., 39.
MacDonald, T. L., XIX (1) A.
Mackaye, J., 18.
Magnan, A., 21.
Magoffin, R. V. D., 38.
Maisin, J., 54.
Marcham, F. G., XVII (1) D.
Marinus, A., 40.
Markham, V. R., XII (2).
Marmasse, A. A., XX D.
Martin, A., 51.
Martin, C., 51.
Marzell, H., 40.
Masani, M. R. P., 9.
Matignon, C., XIX (2) C.
Maung Tin, P., 9.
Maurer, F., XIX (1) C.
Maxwell, J. C., XIX (2) B.
Mayer, A., X (2).
McCroben, G., XIV (1).
McNair, J. B., 28.
Means, P. A., 38.
Meillet, A., 46.
Mello, F. de, 50.
Merkel, F., 6.
Mesnil du Buisson, Count du, 38.
Meyer, A., 18, 27.
Meyerhof, M., VI (1), IX (1), 2.
Milkau, F., 56.
Miller, G. A., 20.
Miller, G. S., jr., 29.
Milne, C. H. M., V (1).
Mo Ti, V B.C.
Montefiore, C. J. G., 49.
Mony, P., XVIII (2) C.
Moore, F. J., 25.
Moorman, L. J., XIX (1) D.
More, P. E., 49.
Morena, O., XII (2).
Morgagni, G., XVIII (1) D.
Morin, Dom G., IX (1).
Morris, R. B., 43.
Müller, R. F. G., 9.
Müller-Freienfels, R., 48.
Mumby, F. A., 56.
Mund, W., 25.
Murchison, C., 37.
Muschel, J., V B.C.
Myres, J. L., 35.

N

Natucci, A., XIX (1) A.
Nau, F., V (1).
Negelein, J. v., 41.
Neugebauer, K., 52.
Neviani, A., XVIII (1) C, XVIII (2) C.
Newell, L. C., 25.
Nichols, H. W., 26.
Nicolson, M. H., XVIII (2) D.
Nierenstein, M., 25.
Nieuwenhuis, A. W., 40.
Nordenskiöld, E., 46.
Norman, H. J., 51.

O

Oberstein, XVIII (1) C.
Ocagne, M. d', XIX (1) A, XX A.
Olschki, L., 6.
Oman, Sir C., 38.

Orlando-Salinas, F., II (2).
Osborn, E. B., V B.C.
Osten, H. H. v. der, 13.

P

Paget, Sir R. A. S., 46.
Papini, G., V (1).
Parsons, F. G., 35.
Pavry, B., 13.
Pavry, C. E., 13.
Peachey, G. C., XVII (1) D.
Peake, H., 1, 35, 39.
Peet, T. E., 2.
Pelseneer, J., 16.
Pertzoff, V., XVIII (1) C.
Petrie, Sir W. M. F., XIX (2) E.
Pflaum, H., XII (1).
Pillet, M., 2.
Pillsbury, M., 46.
Pillsbury, W. B., 46.
Pincherle, B., XIX (1) D.
Pirenne, J., 2.
Pitcairn, H. F., 26.
Plato, IV (1) B.C.
Pogo, A., 2.
Pomerai, R. de, 43.
Pond, A. W., 39.
Postelmann, A., XVIII (1) C.
Power, Sir D'A., 50.
Preisendanz, K., XII (2), 4.

R

Rademacher, H., 20.
Rahn, C., 49.
Randle, H. N., 9.
Ranke, H., 2.
al-Razi, IX (2).
Reeds, C. A., 33.
Regnault, F., 51.
Reparaz, G. de, 31.
Résillac-Roese, R. de, 10.
Reussner, A., XVIII (2) D.
Reynolds, J. H., XI (1).
Richard, A., XIX (1) B.
Richarz, S., 32.
Richter, R., XIX (1) C.
Rieck, W., XIV (1), XVIII (2) D, XIX (1) D, 51.
Riecke, 52.
Riesenfeld, E. H., XIX (2) B.
Rijnberk, G. van, XVIII (2) C.
Roberts, F. H. H., jr., XX C.
Robinson, V., 52.
Roerich, G. de, XX E, 8.
Rohr, M. v., 24, 26.
Rolleston, J. D., XIX (1) D.
Romberg, E. V., 51.
Rome, A., III (1), 20, 23.
Roncière, C. de la, XVI (1) E.
Rosebault, C. J., XII (2).
Ross, W. D., IV (2) B.C.
Rostovtzeff, M. I., 1.
Rouch, J., XIX (2) B.
Rougier, L., XVII (2) A.
Roule, L., XVIII (2) E.
Ruedemann, R., 57.
Ruska, J., 25.

S

Sabatier, P., XIX (2) C.
St. John, C. E., 23.
Sainte-Laguë, A., 21.
Sakâzov, I., 42.
Sakisian, A. B., 13.
Salmony, A., 57.
Salomon, W., 26.
Salzman, L. F., 6.
San Nicolò, M., 3.
Sanctis, Sante de, 49.
Santi, de, XVIII (1) D.
Sarton, G., XVIII (1) B, XIX (1) C, 16, 57.

Saudek, R., 46.
Schacht, J., 14.
Schadewaldt, W., V B.C.
Schapiro, D., 40.
Schering, A., 45.
Schilling-Wollny, K., IV (2) B.C.
Schissel v. Fleschenberg, O., V (2).
Schmid, A., XVIII (1) B.
Schoute, D., XIX (1) D.
Schuchert, C., XX C.
Scovil, E. R., XIX (2) D.
Seckendorf, E., XIX (1) D, 51.
Seibels, R. E., XVIII (1) D.
Senn, G., V B.C., 28.
Serrurier, C., XVII (1) A.
Sethe, K., 2.
Shaw, Sir N., XIX (1) B.
Shotwell, J. T., 49.
Sigerist, H. E., 50, 52.
Sik, L., 50.
Singer, K., IV (1) B.C.
Sköld, H., IV (1) B.C.
Skutil, J., XVIII (1) C.
Sloley, R. W., 2.
Slosser, G. J., 49.
Smith, F. E., 33.
Smith, G. E., 35.
Smith, H. W., 49.
Solmsen, F., IV (2) B.C.
South, H. P., IX (2).
Sprengling, M., XIII (2).
Staderini, R., XVIII (2) D.
Starkenstein, E., XVI (2) C.
Stein, Sir A., 9.
Stempell, G. v., XIX (1) B.
Sticker, G., XVI (1) D.
Stillwell, M. B., 44.
Strack, H. L., 12.
Streeter, B. H., 49, 56.
Stroobant, P., 23.
Struik, D. J., 20.
Struve, W. W., 2.
Stülpner, K., 40.
Stur, J., XI (2).
Sturmer, J. W., 51.
Sudhoff, K., 5, 6.
Swann, N. L., I (2), II (1).
Swanton, J. R., XX C, 38.

T

Täubler, E., V B.C.
Tannery, P., 16.
Teeple, J. E., 23.
Teleky, 51.
Thomas, W. R., 2.
Thomsen, P., VI (1).
Thomsen, V., 46.
Thomson, Sir St. C., 51.
Thomson, W., III (2).
Thorndike, L., XIV (1), 6.
Thurow, W. H., 25.
Todhunter, I., 20.
Toeplitz, O., 20.
Trinkler, E., 8.

V

Van Buren, E. D., 3.
Vera, F., VII (1), XIV (1).
Vernon, H. M., 43.
Vhink, W., 26.
Vieyra, D., XVIII (1) D, XVIII (2) D.
Viviani, U., XVIII (2) D.
Vogel, J. P., 9.
Vogel, K., 2, 4.
Vogels, H. J., 46.
Vorberg, G., 51.
Vorkastner, W., 50.
Vorwahl, H., 51.
Vowles, H. P., 26.
Vowles, M. W., 26.

W

Wagner, F., XII (1).
Walden, P., XVIII (2) B.
Waley, A., 8.
Walker, M. E. M., 50.
Walther, J., XVIII (2) C.
Walzer, R., IV (2) B.C.
Ward, R. de C., 35.
Weale, W. H. J., 49.
Wedemeyer, A., 11.
Wegener, H., 6.
Weidenreich, F., XIX (1) C.
Wein, K., XVII (1) C, XVIII (2) C.
Weinberg, S. J., 51.
Weinberger, O., 42.
Weiss, H. B., XIX (1) C.
Weissermel, W., XIX (2) C.
Weitnauer, A., XVI (1) E.
Welborn, M. C., XI (1).
Westgaard, W., XVIII (1) B.
Weyde, A. J., van der XIX (1) D, 51.
Weynants-Ronday, Mme., 2.
White, G., XVIII (2) C.
Wiet, G., 14.
Wildeman, E. de, 28.
Winkler, L., XVI (1) D.
Winthuis, J., 40.
Wölfflin, E., XVIII (1) D.
Wolter, F., 51.
Wong, K. C., 51.
Wood, A., 49.
Woodhouse, W. J., IX B.C.
Woodward, M., 28.
Wright, W. C., XVI (1) D.

Y

Yamakami, S., 49.

Z

Zeiss, H., XX D.
Ziegler, G. M., XIX (1) C.
Zingali, G., 21.
Zingarelli, N., XIV (1).
Zinner, E., 2.

Index of Authors to Volumes XVI, XVII and XVIII

Indices to *Isis* have appeared in Vol. I and in subsequent volumes of which the ordinal number is divisible by three. We would advise readers to put some mark (*e.g.* the word index) on the backs of the volumes containing an index.

Special pains have been taken to include in this index, as in the previous one, the names of every person about some information may be found. Casual references have been omitted.

LÉON GUINET.

A

'Abbās al-Sabtī, abū-l-, XVIII, 183.
Abbe, E., XVI, 508, 554.
Abbo of Fleury, XVI, 192 f., 412; XVII, 262.
'Abd al-'Azīz al-Huwārī, XVIII, 173.
'Abd al-Qādir al-Fāsy, XVIII, 169.
'Abd al-Raḥmān al-Dalā'ilī, XVIII, 177.
'Abd al-Raḥmān al-Fāsī, XVIII, 182.
'Abd al-Raḥman b. al-Jazūlī al-Bu'qīlī, XVIII, 179.
'Abd al-Raḥman III, XVII, 245.
'Abdalḥamīd al-'Abbādī, XVI, 542.
'Abdallāh b. abī Madyan, XVIII, 173.
Abeille, L. P., XVI, 278.
Abel, J. J., XVI, 552, 555, 559, 560, 574.
Abel, N. H., XVI, 457; XVII, 393.
Abenarabi, *see* 'Arabī, ibn.
Abeneljatib, *see* Jatib, ibn.
Aben Safar, *see* Saffār, ibn al-.
Aben Yūnus, *see* Yūnus, ibn.
Abetti, G., XVII, 503.
Abraham (Dom), XVII, 253.
Abraham bar Ḥiyya, XVI, 397; XVII, 57, 58, 60, 68, 69.
Abraham ibn Ezra, XVI, 420 ff.; XVII, 55 ff.; XVIII, 171.
Abrahams, I., XVII, 564.
Abrein, N., XVI, 488.
Abt, I. A., XVI, 503.
Abū, *see* next word of name.
Abubéquer de Tortosa, *see* Bakr al-Ṭurṭushī, abū.
Acerbi, E., XVIII, 473.
Acharya, P. K., XVII, 552.
Achelis, J. D., XVI, 490.
Ackerman, C. W., XVII, 525.
Ackermann, W., XVIII, 392.

Acres, R. d', XVII, 509.
Adam, C., XVI, 496; XVII, 179, 183 f., 206.
Adams, C. C., XVIII, 529, 530.
Adams, C. F., XVII, 582.
Adams, C. W., XVII, 427-29, 504.
Adams, E. W., XVI, 546.
Adams, J. C., XVII, 156.
Adams, J. Q., XVI, 287, 307.
Adams-Ray, E., XVII, 526; XVIII, 367.
Adckock, F. E., XVII, 541.
Addis, R., XVIII, 398.
Adelard de Bath, XVIII, 24.
Adelbold de Liége, XVI, 201.
Adelbold v. Utrecht, XVII, 222, 225.
Adler, Ad., XVII, 482.
Adler, Al., XVIII, 511.
Adler, E. N., XVII, 563.
Adler, M., XVII, 473.
Aetios of Antioch, XVIII, 340.
Afendopoulo, C., XVII, 54 ff.
Aga-Oglu, M., XVIII, 343.
Agarrat, A., XVIII, 350.
Aglajas, XVIII, 385.
Agnetti, M. P., XVIII, 446.
Agostini, A., XVI, 477, 493; XVII, 575; XVIII, 349, 464.
Agricola, G., XVI, 552.
Agrippa, C., XVII, 84.
Agrippa, M. C., XVII, 473.
Aḥmad Amīn, XVI, 542.
Aḥmad Bābā al-Sudānī, XVIII, 169.
Aḥmad b. al-Ḥasan b. 'Alī i. al-Khaṭīb al-Qusanṭini al-Jibritī, XVIII, 174.
Aḥmad b. Muḥ. b. Mūsā al-Fāsī, XVIII, 180.
Aḥmad i. 'Omar al-Karābīsī, XVIII, 389.
Ailly, P. d', XVII, 490; XVIII, 345, 456.
Airy, G. B., XVII, 158.
Akeley, C., XVII, 446, 530; XVIII, 371 f.
Akeley, M. L. J., XVII, 530; XVIII, 371 f.
Alap, XVIII, 48.
Alarcón, J. R. de, XVII, 501.
Alarcón, M., XVII, 484.
Albasini, P. C., XVIII, 522.
Albenino, N. de, XVII, 496.
Albert of York, XVI, 410.
Alberti, J. G., XVIII, 418.
Albertus Magnus, XVI, 439 f., 486, 552; XVII, 487; XVIII, 63, 223, 264, 267, 268, 271, 344.
Albinus, XVIII, 355.
Albright, W. F., XVII, 567.
Alcuin, XVI, 407 ff.; XVII, 261.
Aldenburgk, J. G., XVI, 495.
Aldrich, C. R., XVII, 598.
d'Alembert, J., XVII, 338, 432; XVIII, 158.
Alexander, A., XVIII, 341.
Alexander, E. H., XVI, 493; XVII, 71-93.
Alexander, J. E., XVII, 522.
Alexander the Great, XVI, 539; XVII, 472, 568.
Alexis of Piemont, XVI, 492; XVIII, 348, 399, 459.
Alfano, G. B., XVII, 588.
Alfanus Ist, XVIII, 451.
Alfonso X of Castille, XVI, 486; XVII, 219, 226 f., 251; XVIII, 344, 456.
Alfred (King), XVII, 481; XVIII, 450.
Alfredus Anglicus, XVIII, 14 ff., 63.
Alhazen, *see* Haiṭham, ibn.

Alhuarizmi, *see* al-Khwārizmī.
Ali, M., XVIII, 448.
'Alī Bar, Isho, XVI, 481.
'Alī b. abī 'Alī al-Qusṭanṭīnī, XVIII, 172.
'Alī al-Ḥusain b. Aḥmad b. Māṣ al Islamī, abū, XVIII, 172.
'Alī b. Muḥ b... al-Dādisī, XVIII, 180.
'Alī b. Mūsā b. 'Abdallāh b. Muḥ. ibn Haidūr al Tādilī, XVIII, 179.
'Alī b. Sulaymān b... al-Taghanāsī, XVIII, 180.
'Alī ibn al-'Abbās, XVII, 383; XVIII, 27, 31, 41, 44, 53, 341.
'Alī ibn 'Isā, XVII, 257.
'Alī b. 'Īsā al-Asṭurlābī, XVIII, 170.
'Alī ibn Rabban at-Ṭabarī, XVI, 6-54; XVII, 481, XVIII, 449, 450.
'Alī ibn Riḍwān, XVIII, 27, 40.
Allcroft, A. H., XVI, 560.
Allen, C., XVI, 500; XVIII, 525.
Allen, T., W., XVII, 469.
Alliaume, M., XVIII, 470.
Allison, W. H., XVII, 453-64.
Almagià, R., XVII, 423, 499, 588; XVIII, 508.
Almeon, XVII, 254.
Almeida, d', XVII, 526.
Almquist, E., XVII, 583; XVIII, 206.
Alphane Ist, XVI, 484.
Alphane IInd, XVI, 484.
Alpinus, M. T., XVII, 81.
Altheim, F., XVI, 520.
Altrocchi, R., XVI, 487.
Alveredus, XVIII, 18.
Alviella, Goblet d', XVII, 585.
Amaracandra, XVII, 33.
Ambard, L., XVII, 573.
Amenophis III, XVI, 93.
Ames, J. S., XVIII, 470.
Ammonios, XVIII, 449.
Ampère, A. M., XVIII, 118-127, 185, 359.
Amundsen, R., XVIII, 372.
Anandagiri, XVII, 555.
Anatolius of Beirut, XVI, 14.
Anaxagoras, XVII, 278.
Anaximandros, XVIII, 377.
Andel, M. A. van, XVI, 491, 493; XVII, 612; XVIII, 417, 461.
Anderson, A., XVIII, 398.
Anderson, A. R., XVII, 568.
Anderson, F., XVII, 533.
Anderson, O., XVIII, 517.
Anderson, R., XVIII, 498.
Anderson, W. W., XVIII, 362.
Andoyer, H. ,XVII, 401.
Andrada, R. F. de, XVI, 496.
Andrade, A. de, XVII, 505.
Andrade, E. N. da Costa, XVIII, 396.
Andrae, W., XVII, 548.
André, G., XVIII, 475.
Andreades, A., XVIII, 375.
Andrée, S. A., XVII, 526; XVIII, 367, 475.
Andrews, E. D., XVII, 518.
Andrews, R. C., XVIII, 372.
Anesaki, M., XVII, 562.
Anger, C. J., XVIII, 204-206.
Anghiera, P. M. de, XVII, 496.
Anthiaume, A., XVII, 219.
Anthoniszoon, XVIII, 404.
Anthony, F., XVIII, 293.
Anthony, L. P., XVIII, 525.
Antisthenes, XVII, 470.
Antoniadi, E. M., XVI, 549; XVII, 507, 578; XVIII, 381.
Antonio di Pera, XVI, 574.
Antuna, M. M., XVII, 489.

Antyllos, XVIII, 340, 527.
Apollonios of Perga, XVI, 477; XVII, 280, 473, 575.
Appleyard, R., XVII, 521; XVIII, 396.
Appuhn, C., XVI, 500.
Apuleius, XVI, 399.
Apuleius (pseudo), XVIII, 63.
Aquinas, T., XVIII, 395.
'Arabī, ibn, XVII, 271-73; XVIII, 454.
Arago, D. F. J., XVI, 545; XVIII, 124.
Archibald, R. C., XVI, 148-55, 512, 517, 547 f.; XVII, 384-407, 509; XVIII, 495.
Archimedes, XVI, 478, 548; XVII, 52, 279 f., 288-89, 402, 414, 472; XVIII, 393; and passim.
d'Arcy, M. C., XVIII, 446.
Arduino, G., XVII, 516.
Aretaeus, XVIII, 339.
Argyros, I., XVII, 54, 55.
'Arīb ibn Sa'd, XVII, 46.
Aristoteles, XVI, 87 f., 157, 316, 477, 489, 542; XVII, 280, 318, 399, 420, 469, 471, 472, 547; XVIII, 27 ff., 202, 336, 443, 447; and passim.
Aristoteles (pseudo), XVIII, 63.
Arkell, W. J., XVIII, 379.
Arlington, L. C., XVII, 558.
Arlt, C. F., XVIII, 418.
Armaingauld, A., XVIII, 370.
Armstrong, A., XVIII, 399.
Armstrong, H. E., XVI, 437; XVII, 525.
Arne, T. J., XVII, 558.
Arnim, L. A. v., XVIII, 474.
Arnim, S. v., XVII, 524.
Arnold, R. D., XVIII, 364.
Arnold, T., XVII, 482; XVIII, 18.
Aronson, S., XVI, 573.
Arrhenius, S., XVI, 552; XVIII, 475.
Arrigo VII, XVIII, 455.
Arsonval, A. d', XVI, 529; XVII, 549.
Artaxerxes, XVIII, 336.
Artelt, W., XVII, 597, 608; XVIII, 525.
Artemidoros, XVIII, 445.
Artschwager, E. F., XVII, 583.
Āryabhaṭa, XVII, 26 ff., 478, 556.
Āryabhaṭa II, XVII, 26 ff.
Aschner, B., XVI, 490; XVIII, 346.
Ashcroft, E. W., XVIII, 359.
Ashdown, M., XVI, 482.
Ashley, C. W., XVI, 122.
Ashmole, E., XVIII, 290 ff., 302 f.
Ashwin, E. A., XVI, 563; XVII, 603.
Ascoli, G., XVII, 506.
Asín Palacios, M., XVI, 481, 496; XVII, 271-73; XVIII, 451, 453.
Askew, A., XVI, 568.
Asoka, XVII, 472.
Aśvaghoṣa, XVII, 476.
Athelard de Liége, XVI, 197.
Aubert, A., XVII, 142.
Aubert, M., XVI, 523; XVIII, 383.
Aubrey, XVII, 177, 203.
Audain, L., XVIII, 411.
Audisio, F., XVII, 575; XVIII, 495.
Audouar, XVI, 436.
Audubon, J. J., XVII, 446.
Auerbach, E. F., XVII, 612.
Augur, H., XVIII, 521.
Augustine of Trent, XVI, 487.
Augustinus, St., XVII, 272, 477; XVIII, 445, 446.
Aurelius, M. A., XVIII, 445.
Austin, M., XVII, 446.
Autolykos, XVI, 518; XVIII, 498.

Avalon, J., XVIII, 447.
Averroes, *see* Rochd, ibn.
Avicenna, *see* Sīnā, ibn.
Azarquiel, *see* al-Zarqālī.

B

Babinger, F., XVII, 606.
Babington, B., XVIII, 527.
Babini, R., XVIII, 466.
Babcock, H. D., XVIII, 499.
Bach, J., XVII, 494.
Bachhofer, L., XVI, 531.
Bacon, F., XVI, 574; XVII, 97, 105, 116, 122, 171-208, 506; XVIII, 80 f., 460.
Bacon, R., XVI, 486, 552; XVII, 281, 482, 487; XVIII, 24, 26-62, 263, 268.
Bacot, J., XVIII, 448.
Badr, ibn, XVIII, 177.
Badr al-Dīn al-Qalānisī, XVI, 13.
Baechtold-Stäubli, H., XVIII, 514.
Baeck, L., XVII, 607.
Bälz, E., XVII, 528.
Bälz, T., XVII, 528.
Baer, E. v., XVI, 315-78 (portr.), 465; XVIII, 472.
Baeyer, A. v., XVI, 507, 552.
Bagrow, L., XVIII, 353.
Bahu Bhuvaneka, XVII, 498.
Bailey, K. C., XVIII, 444.
Bailey, L. H., XVII, 446.
Bailey, S. I., XVIII, 395.
Baillet, A., XVII, 180.
Baillie, M., XVI, 568; XVIII, 357 f.
Baily, F., XVII, 139.
Baiṭār, ibn al, XVI, 13.
Baker, A. E., XVII, 501.
Baker, G. P., XVI, 536; XVII, 477.
Baker, J. T., XVIII, 519.
Bakewell, C. M., XVI, 87.
Bakker, C., XVI, 479.
Bakr al-Ṭurṭushī, abū, XVII, 484.
Baldelli, F., XVII, 81.
Baldwin, F. S., XVIII, 475.
Baldwin, J. M., XVIII, 405.
Bale, J., XVIII, 294 f.
Balfour, G., XVI, 474.
Balfour, H., XVI, 510; XVII, 600; XVIII, 375.
Bálint-Nagy, S., XVII, 500.
al-Balkhī, XVI, 13.
Balss, H., XVIII, 471.
Baltrusaitis, J., XVI, 520.
Balzac, J. B. M. Baudry de, XVIII, 383.
Balzli, H , XVII, 485; XVIII, 452.
Bamberger, F., XVII, 564.
Bannā', ibn al, XVI, 407; XVIII, 173, 174, 175, 179, 180.
Bannister, C. O., XVII, 534.
Bar, *see* next word of name.
Baratta, M., XVII, 589.
Barbagallo, C., XVII, 477.
Barbillion, J., XVII, 508, 608; XVIII, 357.
Bardeleben, H. A., XVIII, 472.
Bargheer, E., XVII, 599.
Barhaebraeus, *see* Faraj, abū'l.
Barker, E., XVIII, 419.
Barker, L. F., XVII, 466.
Barkley, A. H., XVIII, 362.
Barlaam, XVII, 59.
Barlè, C. J., XVIII, 524.
Barlowe, W., XVII, 97.
Barnard, C. C., XVII, 491.
Barnard, F. P., XVII, 490.
Barnes, E. W., XVIII, 520.
Barr, M. M. H., XVII, 518.
Barrett, F., XVIII, 303, 307.
Barrett, W., XVIII, 304 ff.
Barros, J. de, XVII, 490.

Barrow, I., XVI, 497; XVIII, 519.
Barry, F., XVI, 547.
Barsauma le Syrien, XVIII, 446.
Bartoletti, F., XVI, 496.
Bartolomeo dali Sonetti, XVI, 490.
Barton, G. A., XVII, 563.
Barton-Wright, E. C., XVII, 447.
Bartram, J., XVI, 145; XVII, 445.
Bartram, W., XVII, 445.
Barwick, G. F., XVI, 495; XVII, 504.
Bary, A. de, XVII, 527.
Baschin, O., XVII, 589.
Bashford, E. F., XVI, 571.
Bashyaẓi, R. E., XVII, 70.
Basil Ist, XVI, 528.
Basile, V., XVIII, 291, 304.
Basile-Valentin (pseudo), XVI, 552.
Bast, T. H., XVII, 528.
Bastide, R., XVIII, 406.
Bate, G., XVIII, 353, 462.
Bate, J., XVI, 87.
Bateson, W., XVIII, 367.
al-Battānī, XVII, 247, 254.
Batten, M. J., XVII, 582.
Battelli, A., XVII, 391.
Bauer, N., XVII, 597.
Bauhin, G., XVI, 440.
Baumann, E. D., XVI, 518; XVII, 532; XVIII, 375 f., 525.
Baumes, XVIII, 527.
Bavink, B., XVII, 574.
Baxter, R., XVIII, 106.
Bayer, J., XVI, 243, 258.
Bayet, A., XVII, 605.
Bayldon, F. J., XVI, 495.
Baynes, N. H., XVII, 529.
Beale, H. B., XVIII, 397.
Beare, J. J., XVIII, 34.
Beaudouin, F., XVI, 566.
Beaulieux, C., XVIII, 517.
Beaumont, W., XVIII, 362.
Beauverie, J., XVIII, 475.
Beaves, W., XVII, 511.
Bebb, W., XVI, 573.
Becket, T., XVIII, 453.
Beckett, A., XVIII, 400.
Beebe, W., XVII, 446.
Beck, L., XVI, 178.
Becker, F., XVI, 553.
Becker, G., XVI, 193.
Becker, K., XVIII, 514.
Becker, M. J., XVIII, 456.
Becker, O., XVIII, 381.
Beckman, H., XVIII, 512.
Beckmann, F., XVI, 478.
Beddoes, T., XVII, 513; XVIII, 357.
Bede, XVI, 202, 481; XVII, 245, 261 f.
Bednarski, A., XVI, 486.
Bedwell, T., XVII, 259.
Bedwell, W., XVII, 259.
Beek, A. van, XVIII, 121, 125, 126.
Beer, G., XVII, 564; XVIII, 193.
Beer, G. R. de, XVII, 589.
Beer, R., XVI, 201; XVII, 244.
Beery, P. G., XVIII, 399.
Beeson, B. B., XVIII, 476.
Behagel, O., XVI, 504.
Behn, H., XVIII, 359.
Behn, S., XVIII, 359.
Bek-Gran, R., XVII, 602.
Beklāreš, ibn, *see* Yūsuf b. Isḥaq Biklārish.
Beldomandi, P. de, XVII, 36.
Bell, G., XVI, 539.
Bell, H. I., XVII, 472.
Bell, T., XVIII, 526.
Belleforest, F. de, XVII, 81.
Bellin du Coteau, M., XVI, 566.
Bellingrodt, F., XVII, 616.
Bellot, H. H. L., XVII, 616.
Belot, G., XVII, 606.

Beltrami, G. C., XVII, 524.
Beman, W. W., XVI, 547.
Ben, *see* next word of name.
Benassi, E., XVIII, 466.
Bencker, H., XVII, 589.
Bendann, E., XVI, 562.
Benedetto Rivio, XVIII, 64.
Benedict Biscop, XVII, 261, 262.
Benedict (d. ältere), XVIII, 348.
Bénédite, G., XVII, 533.
Beneveneto, Grafeo *see* Benevenetus Grassus.
Benevenetus Grassus, XVI, 485; XVII, 485.
Benivieni, A., XVII, 260.
Bennett, J. W., XVIII, 386
Benson, E. F., XVII, 494.
Bentley, M., XVIII, 511.
Benton, W. A., XVIII, 354.
Benveniste, E., XVII, 568.
Benz, E., XVIII, 376.
Benzi, U., XVI, 471.
Bérard, V., XVII, 469; XVIII, 441.
Berg, T. T., XVIII, 414.
Berger, J. A., XVIII, 468.
Bergeron, M., XVI, 566.
Bergmann, H., XVI, 220-32; XVIII, 467.
Bergmann, T., XVI, 446.
Bergounioux, J., XVI, 495; XVII, 501; XVIII, 418.
Bergson, H., XVIII, 375.
Bergsträsser, G., XVII, 479.
Berkeley, G., XVI, 457; XVII, 512; XVIII, 467, 519.
Berkeley, L. M., XVIII, 358.
Berkeley, M. J., XVIII, 136, 139 ff.
Berl, E., XVIII, 359.
Bernaldes, A., XVII, 491, 492.
Bernardin de St-Pierre, XVIII, 470.
Bernardinis, L. de, XVIII, 497.
Bernegger, M., XVII, 503.
Bernelinus de Paris, XVI, 421.
Bernelius, XVI, 196.
Bernfeld, S., XVII, 564.
Bernfeld, W., XVI, 481.
Bernhard, O., XVI, 566; XVIII, 479.
Bernhart, J., XVIII, 407.
Berno v. Reichenau, XVI, 193.
Bernoulli, Jean Ist, XVII, 182
Bernthsen, A., XVI, 507.
Berres, J., XVII, 521.
Bertacchi, C., XVII, 589.
Berthelot, A., XVIII, 338.
Berthelot, M., XVI, 431, 435, 552; XVIII, 263, 475, 476.
Berthier, A., G. XVII, 573.
Berthier, J., XVIII, 400.
Bertholet, A., XVI, 533.
Berthollet, C. L., XVI, 432, 552; XVII, 433.
Betram, G., XVI, 538.
Bertrand, F. L., XVIII, 368, 419 f.
Bertrand, G., XVIII, 500.
Bertrand, J., XVI, 468; XVII, 181; XVIII, 522.
Bertrand, M., XVIII, 475.
Berzelius, J. J., XVI, 437, 552.
Bessel, F. W., XVI, 237.
Bessel-Hagen, E., XVIII, 389.
Besson, M., XVIII, 351.
Bestaux, E., XVIII, 407.
Bett, H., XVII, 485.
Bevan, E. R, XVII, 564.
Bévenot, H., XVI, 478, 546; XVIII, 450, 451.
Beyer, F., XVI, 556.
Beyer-Fröhlich, M., XVIII, 458.
Beyerle, K., XVIII, 384.
Bhāskārā, XVI, 549; XVII, 484, 556.
Bhāskārā II, XVII, 25, 26, 484.

Biagio Pelacani, *see* Blasius of Parma.
Bianchi, E., XVII, 503.
Bianchi, G., XVII, 517.
Bianu, J., XVIII, 518.
Biasutti, R., XVII, 589.
Bichat, M. F. X., XVI, 545.
Bidez, J., XVII, 477.
Bieberbach, L., XVI, 497.
Biegel, R. A., XVI, 96, 102 ff.; XVIII, 481.
Bigelow, H. B., XVIII, 404.
Bigelow, M., XVII, 290, 324.
Bigelow, R. P., XVII, 290-324.
Biggar, H. P., XVII, 504; XVIII, 458.
Bigourdan, G., XVI, 277, 550; XVIII, 498.
Bilancioni, G., XVII, 476, 493, 517; XVIII, 525.
Bilderdijk, XVII, 517.
Bilikiewicz, T., XVI, 496; XVII, 506.
Billings, J. S., XVIII, 148.
Bilot, R., XVI, 530.
Binet, A., XVIII, 368.
Binney, W. G., XVI, 146.
Binswanger, L., XVI, 560.
Binyon, L., XVI, 482; XVII, 558.
Biot, J. B., XVII, 443; XVIII, 185.
Birch, T., XVIII, 100.
Bird, J., XVII, 127-153 (portr.), 335.
Biringuccio, V., XVI, 552.
Birkenmajer, A., XVII, 34-53, 421-23; XVIII, 330-32.
Birkenmajer, L. A., XVI, 136-38.
al Bīrūnī, XVI, 10, 403 f., 483; XVIII, 162, 172.
Bischoff, C., XVII, 527.
Bishop, W. J., XVI, 566.
Biscoe, J., XVI, 379-92; XVIII, 471.
al Biṭrūjī, XVIII, 172.
Bjerknes, V. K. F., XVIII, 396.
Björnbo, A. A., XVI, 176; XVII, 38, 39, 46, 47, 53.
Black, J., XVI, 552.
Blake, W., XVII, 519.
Blanckère, R. L., XVII, 482 f.
Blanchet, A., XVI, 560.
Bland-Sutton, J., XVII, 531; XVIII, 368.
Blanton, W. B., XVII, 505.
Blashki, A., XVI, 538.
Blasius of Parma, XVII, 36.
Blech, E. W., XVIII, 418.
Bleek, D. F., XVI, 563; XVII, 601.
Blegen, T. C., XVII, 522.
Bligh, E. W., XVII, 612.
Blignières, C. de, XVIII, 370, 473.
Bliss, N., XVII, 129.
Bloch, M., XVI, 504, 546; XVIII, 500.
Blomefeld, M., XVIII, 302.
Blondel, M., XVII, 477, 575; XVIII, 446.
Blondheim, D. S., XVII, 483.
Bloomefield, W., XVIII, 302.
Blount, J., XVII, 490.
Blumenbach, J. F., XVI, 361.
Blundeville, T., XVII, 118, 172.
Bobinin, V., XVII, 64.
Bobrovnikoff, N. T., XVIII, 197-200.
Boccacio, XVII, 490.
Boccardi, J., XVIII, 498.
Bock, A. W , XVI, 521.
Bode, W. v., XVI, 510.
Bodenheimer, F. S., XVI, 169, 555; XVII, 564.
Bodilly, R. B., XVI, 495.
Bodin, J., XVII, 105.

Böckeler, M., XVIII, 453.
Boeckler, A., XVIII, 530.
Boehme, Ja., XVII, 506.
Böhme, Jo., XVIII, 441.
Boerhaave, H., XVI, 552; XVII, 510; XVIII, 398, 468.
Bömer, A., XVIII, 530.
Boerschmann, E., XVIII, 488.
Boethius, XVI, 394, 397, 409, 411, 415 ff., 549; XVIII, 446.
Böttger, XVI, 501.
Boex-Borel, J. H., XVII, 606.
Bogoras, W. G., XVIII, 512.
Bohr, N., XVIII, 499.
Bojanus, L. H., XVI, 337 f.
Bókay, J. v., XVI, 570.
Boldrini, M., XVIII, 497.
Bolkestein, H., XVIII, 407.
Boll, F., XVI, 92, 176; XVII, 474.
Bollnow, O. F., XVII, 578.
Bolles, E. C., XVIII, 147 f.
Bollinger, O., XVIII, 476.
Bologa, V. L., XVI, 572; XVII, 422, 608, 613; XVIII, 525.
Bolzano, B., XVII, 520; XVIII, 470.
Bombelli, R., XVI, 492; XVIII, 162.
Bompiani, E., XVII, 575.
Bona, E., XVII, 514.
Bonar, J., XVII, 593.
Bonelli, F. A., XVII, 522.
Bonnay, C. F., XVI, 278, 280.
Bonner, R. J., XVIII, 381.
Bonnet, C., XVI, 316.
Bonnet, E., XVII, 508.
Bonomo, G. C., XVI, 500.
Bontius, J., XVIII, 461.
Bonuzzi, S., XVIII, 525.
Booth, J. C., XVIII, 501.
Bopp, K., XVII, 393.
Borchardt, L., XVI, 93.
Borchert, E., XVII, 42.
Bord, B., XVIII, 482.
Bordeu, T. de, XVII, 610.
Borelli, G. A., XVIII, 355, 461.
Boreux, C., XVI, 150; XVII, 533.
Borel, E., XVII, 394.
Borghi, P., XVII, 60.
Boring, E. G., XVIII, 511.
Bork, F., XVI, 550; XVII, 541.
Borough, W., XVII, 97.
Borrichius, XVIII, 296.
Bortolotti, E., XVI, 492; XVII, 402, 423, 575; XVIII, 349, 454, 464, 467, 470, 477, 495.
Bose, J., XVIII, 487.
Bosmans, H., XVII, 403, 404.
Bossert, H. T., XVII, 533.
Boswell, E., XVI, 499.
Bougainville, L. A. de, XVII, 515.
Bouillaud, J. B., XVIII, 364, 473.
Boulduc, G. F., XVIII, 355.
Boulliaud, I., XVII, 183.
Boulton, XVII, 514.
Boulton, H. E., XVIII, 399.
Boulton, M., XVI, 274.
Boulton, W. H., XVIII, 502.
Bourguignon, E., XVIII, 418.
Bourne, J., XVI, 116.
Bournon, J. L. de, XVIII, 124.
Boussac, P. H., XVIII, 479.
Boussingault, J. B., XVIII, 402.
Boutroux, P., XVII, 184.
Bouyges, M., XVI, 486.
Boveri, M., XVIII, 366.
Bowditch, N., XVI, 504.
Bowen, T., XVIII, 526.
Bowra, C. M., XVII, 469.
Box, C., XVII, 564.
Boxer, C. R., XVI, 496.
Bozzini, XVIII, 527.
Boycott, A. E., XVI, 554.
Boyer, J., XVII, 392.

Boyle, Ri., XVIII, 83.
Boyle, Ro., XVI, 82-91, 430 f., 438, 443, 498, 552; XVII, 112; XVIII, 77-102, 106, 110 f.
Boys, C. V., XVIII, 349.
Brackett, F. S., XVIII, 507.
Bradley, J., XVI, 233-65 (portr.); XVII, 129 ff., 333-83, 510; XVIII, 438, 464.
Bragg, W. H., XVII, 521.
Brahe, T., XVI, 492; XVII, 105, 344, 366, 382, 503.
Brahmagupta, XVII, 26, 27, 478, 556.
Brailsford, M. R., XVI, 534.
Braithwaite, R. B., XVII, 575.
Brandeis, H., XVIII, 335.
Brandt, B., XVI, 557; XVII, 543.
Brandt, G., XVI, 446.
Brasch, F., XVII, 161; XVIII, 5-6, 199, 467.
Brater, E., XVIII, 465.
Brauchle, A., XVIII, 511.
Braun, M., XVIII, 477.
Brauner, B., XVIII, 359.
Braunmühl, A. v., XVII, 392; XVIII, 152, 157.
Bray, E., XVII, 521.
Bray, G. W., XVIII, 504.
Breasted, J. H., XVII, 533; XVIII, 376.
Bréguet, A., XVII, 443.
Bréhier, L., XVI, 521.
Bréhier, M., XVII, 262.
Breithaupt, G., XVIII, 502.
Breschet, G., XVI, 330.
Brett, G. S., XVIII, 511.
Brévié, J., XVII, 569.
Brewer, W. H., XVII, 527; XVIII, 146.
Briart, A., XVIII, 373.
Bridges, T. C., XVIII, 391.
Briggs, H., XVII, 99 f.; XVIII, 349.
Brigham, A. P., XVI, 505.
Bright, R., XVIII, 562.
Bring, E. S., XVII, 393.
Brockelmann, C., XVIII, 168, 169.
Brögger, A. W., XVI, 520, 560; XVIII, 484.
Broglie, L. de, XVII, 326; XVIII, 499.
Brongniart, A. T., XVI, 546.
Brooke, Z. N., XVII, 487.
Brose, H. L., XVIII, 377.
Brown, A., XVII, 608.
Brown, J., XVIII, 357.
Brown, P. A., XVIII, 453.
Brown, S., XVIII, 362.
Browne, E. G., XVI, 6 f.
Browne, G. B., XVI, 503, 508.
Browne, L. E., XVI, 536.
Browne, T., XVII, 96, 97, 107, 117, 124; XVIII, 281.
Browning, W., XVIII, 408.
Brozek, XVI, 137.
Bruck, F., XVI, 505.
Brüll, E., XVIII, 394
Brugnatelli, XVI, 446.
Brugsch, H., XVI, 93 ff.
Brunck, H. v., XVI, 552.
Brunet, C. M., XVIII, 163.
Brunet, P., XVI, 448; XVII, 403, 433-35, 509, 510; XVIII, 349, 359.
Brunner, K., XVI, 178.
Bruno (of Cologne), XVI, 190.
Bruno, G., XVII, 501.
Brunold, C., XVII, 581.
Brunot, F., XVII, 431-33, 512.
Brunschvicg, L., XVII, 606; XVIII, 392, 462.
Brunton, G., XVIII, 378.
Bruttini, A., XVII, 585.
Bruyn, J. A. de, XVII, 505.

Bryan, C. P., XVII, 534.
Bryan, J. I., XVII, 562.
Bryk, F., XVII, 511, 599.
Buber, M., XVIII, 490.
Bubnov, N., XVI, 192, 201, 395, 411; XVII, 221 ff.
Buchenau, A., XVII, 519.
Buck, J. L., XVII, 558.
Buckland, W. W., XVII, 541.
Buddha, XVI, 480; XVII, 470, 559, 563.
Buddhagosa, XVII, 478; XVIII, 487.
Budge, E. A. W., XVI, 512, 521; XVII, 601; XVIII, 479.
Bügge, G., XVI, 552; XVIII, 500.
Bühler, J., XVII, 543.
Bürger, W., XVII, 527.
Buffon, G. L. L., XVII, 432; XVIII, 349 f., 357.
Bugiel, V., XVII, 517.
Bugow, K., XVI, 556.
Buhl, F., XVIII, 449.
Buhrman, XVIII, 404.
Bulaeus, E., XVIII, 344.
Bulit, Dr., XVII, 569.
Bull, L., XVI, 512.
Bullón y Fernández, E., XVII, 473.
Bunsen, R. W., XVI, 429, 552.
Buonaiuti, E., XVIII, 343, 520.
Buonanni, XVII, 316 f.
Burchard, A., XVII, 589.
Burchhardt, J. L., XVII, 265.
Burckhardt, A., XVII, 542.
Burckhardt, J., XVIII, 371.
Burdach, C. F., XVI, 318 f., 328, 337.
Burdach, K., XVI, 497.
Bure, XVIII, 404.
Burgess, J. S., XVI, 533.
Burghley (lord), XVII, 113, 118, 122.
Burkart, F., XVIII, 525.
Burkill, I. H., XVII, 551.
Burkitt, F. C., XVII, 564; XVIII, 521.
Burkitt, M. C., XVI, 561; XVIII, 510.
Burks, B. S., XVII, 594.
Burn, A. R., XVIII, 479.
Burn, C. B., XVIII, 408.
Buron, E. J. P., XVIII, 456.
Burr, A. C., XVII, 427.
Burr, A. R., XVI, 509.
Burr, C. B., XVI, 566.
Burr, C. W., XVII, 476; XVIII, 338.
Burr, H. S., XVIII, 362.
Burrard, S., XVII, 549.
Burroughs, J., XVII, 446.
Burton, J., XVIII, 417.
Burton, R., XVII, 104, 117, 404.
Bury, J. B., XVII, 529.
Burtt, E. A., XVIII, 199.
Busch, A. L., XVI, 237.
Buschan, G., XVIII, 514.
Bushnall, D. I. jr., XVI, 497.
Bushnell, G. H., XVII, 532.
Busquet, P., XVII, 523.
Busse-Wilson, E., XVIII, 454.
Bussemaker, U. C., XVIII, 340.
Busson, H., XVII, 498.
Butcher, R. W., XVIII, 471.
Butler, G., XVIII, 515.
Butler, H. C., XVII, 548.
Butler, S., XVIII, 441.
Buxton, L. H. D., XVI, 533.
Bynkershoek, C. van, XVII, 512.
Byrd, R. E., XVII, 530.
Byron, R., XVII, 547.

C

Cabanès, A., XVI, 566.

Cabannes, J., XVII, 580.
Cabots (the), XVII, 496.
Caddeo, C., XVII, 491.
Caelius, A., XVIII, 340.
Ceasar, J., XVI, 478.
Caillet, E., XVII, 601.
Cajori, F., XVI, 457, 459, 557; XVII, 259, 384-407 (portr.), 427 f.
Cajori, F. A., XVII, 389, 498.
Calcagnini, C., XVI, 136.
Caldani, A., XVII, 517.
Calderini, A., XVIII, 480.
Calisse, C., XVIII, 515.
Calkins, M. W., XVIII, 405.
Calvert, E. R., XVIII, 515.
Camerarius, J., XVI, 493.
Campana, A., XVIII, 466.
Campanus of Novara, XVII, 251.
Campbell, A. M., XVIII, 195-97.
Campbell, W. E., XVII, 497.
Canaan, T., XVIII, 490.
Canepario, XVI, 439.
Cannizaro, S., XVI, 552.
Cantor, G., XVI, 507; XVIII, 474.
Cantor, M., XVI, 193, 399 ff.; XVII, 220 ff. 385, 399; XVIII, 152.
Canynges, W., XVIII, 304.
Capart, J., XVI, 512; XVII, 534; XVIII, 480.
Capella, Ma., XVII, 479.
Capes, W. W., XVIII, 19.
Capodistriano, S., XVI, 471.
Caporali, XVII, 316.
Capparoni, P., XVII, 292; XVIII, 355, 461.
Caraci, G., XVII, 491, 494, 589.
Cardano, G., XVII, 419, 493 f.; XVIII, 162, 401.
Cardozo, B. N., XVIII, 515.
Carmalt, W. H., XVIII, 370.
Carmichael, J., XVII, 511.
Carmichael, R. D., XVII, 276, 574.
Carnap, R., XVIII, 392.
Carneal, G., XVI, 510.
Carnot, S., XVI, 502; XVII, 400; XVIII, 332 f.
Carnoy, A. J., XVIII, 518.
Caro, H., XVI, 552.
Carolsfeld, H. S. v., XVIII, 530.
Carpelan, T., XVIII, 420.
Carr, H., XVIII, 511.
Carr, H. W., XVIII, 354.
Carra de Vaux, XVII, 280.
Carré, J. R., XVIII, 464.
Carruthers, D., XVI, 501; XVII, 511.
Carruthers, J., XVII, 514; XVIII, 357.
Carslaw, H. S., XVII, 397.
Carson, H. W., XVIII, 525.
Carter, H. R., XVII, 464-66.
Carter, L. A., XVII, 464.
Carteret, G., XVII, 504.
Cartier, J., XVIII, 458.
Cartogan, N., XVIII, 518.
Carton, R., XVII, 482.
Carus, C. G., XVI, 144; XVII, 518, 524, 525; XVIII, 362, 408.
Cary, M., XVIII, 376.
Casanowicz, I. M., XVII, 479.
Casarini, A., XVIII, 468.
Casiri, M., XVIII, 166 ff.
Caspar, M., XVI, 494; XVII, 503; XVIII, 199.
Cassini, J., XVI, 234.
Cassini, J. D., XVII, 201.
Cassiodorus, F. M. A., XVII, 479.
Casson, H. N., XVIII, 366.
Castagné, J., XVI, 540.
Castanheda, L. de, XVII, 499.
Castel, L. B., XVII, 433.

Castiglioni, A., XVI, 468-71, 490, 503, 544, 560, 608, 613; XVIII, 461, 478, 522.
Castries, H. de, XVII, 502, 504; XVIII, 167.
Caton-Thompson, G., XVII, 599.
Cattell, R. B., XVIII, 405.
Cauchy, A. L., XVII, 155.
Caulaert, C. van, XVII, 594.
Caulfield, E., XVI, 502; XVIII, 465.
Caullery, M., XVI, 554.
Causse, A., XVI, 536.
Cauvet, G., XVII, 598.
Cavaignac, E., XVIII, 376.
Cavallo, XVIII, 402.
Cavazzoni, L., XVIII, 445.
Cavendish, C., XVII, 100, 102.
Cavendish, H., XVI, 552.
Cavendish, T., XVII, 499.
Cawadias, A. P., XVIII, 381.
Cazemier, L. J., XVIII, 480.
Celli-Fraentzell, A., XVII, 613.
Celsius, XVIII, 438.
Celsus, A. C., XVIII, 337, 527.
Cerny, J., XVIII, 480.
Cesalpino, A., XVIII, 349.
Cestoni, D., XVII, 318.
Cestoni, G., XVIII, 353.
Ceva, T., XVIII, 464.
Chabot, I. B., XVII, 481.
Chace, A. B., XVI, 451, 512; XVII, 407; XVIII, 378, 379.
Chaillu, P. du, XVII, 527.
Chair, D. R. S. de, XVII, 514.
Chalmers, A. K., XVII, 613.
Chamber, J., XVII, 506.
Chamberlin, T. C., XVI, 509.
Champier, S., XVIII, 347.
Champlain, S. de, XVI, 574; XVII, 504.
Chance, B., XVIII, 351.
Chandler, C. F., XVIII, 501.
Ch'ang-ch'un, XVII, 443, 486.
Ch'ang Yang, XVII, 558.
Chapman, F. M., XVII, 446.
Chapman, P. F., XVIII, 290-321.
Chapman, R. C., XVII, 446.
Chapot, V., XVIII, 479.
Chapouthier, F., XVII, 532; XVIII, 376.
Chapuis, A., XVIII, 394, 502.
Charaka, XVI, 12.
Charbonneaux, J., XVIII, 376.
Charbonnier, P. E., XVII, 582.
Charewiczowa, L., XVII, 613.
Charignon, A. J. H., XVII, 487.
Charles, Ist, XVIII, 462.
Charlesworth, M. P., XVII, 542.
Chasles, M., XVIII, 186.
Chassinat, E., XVI, 93, 108; XVII, 7.
Chatterton, E. K., XVI, 122.
Chaucer, G., XVI, 488; XVII, 96.
Chauvel, J. F. M., XVIII, 370.
Chavrebière, C. de, XVIII, 389.
Chemnitius, F., XVIII, 500.
Chen, L. T., XVII, 559.
Cheneb, Moh. ben, XVIII, 168, 169.
Ch'eng Wei, XVII, 441.
Cheng Yin, XVII, 442.
Cherrie, G. K., XVIII, 367.
Cherry-Garrard, A., XVIII, 372.
Chesterfield, E., XVI, 237.
Chiarugi, V., XVIII, 526.
Chevalier, J., XVIII, 336.
Ch'ien, XVIII, 230.
Chiera, E., XVIII, 380.
Child, J. M., XVI, 497; XVII, 398.
Child, W., XVIII, 15.
Childe, V. G., XVI, 561.
Ch'in Shih Huang Ti, XVIII, 226.
Chinard, G., XVII, 518.

Chittenden, R. H., XVI, 560; XVII, 618; XVIII, 362.
Chivers, T. H., XVIII, 362.
Chmela, T., XVIII, 525.
Choisnard, P., XVIII, 395.
Choisy, F. T. de, XVII, 508; XVIII, 463.
Choulant, L., XVIII, 344, 404.
Chrodegang, XVI, 197.
Chu-fu-tzŭ, XVIII, 211, 215, 284.
Chu Hsi, XVIII, 211, 215, 284.
Ch'u T'an Si Ta, XVII, 561.
Chydenius, A., XVII, 518.
Ciani, E., XVIII, 157.
Ciccoti, E. XVIII, 376.
Cicero, XVI, 399.
Ciruelo, P. S., XVII, 404.
Clairaut, A. C., XVI, 236; XVII, 337 ff.
Claparède, E., XVIII, 405.
Clarisse, XVIII, 361.
Clark, E. K., XVIII, 503.
Clark, H. O., XVIII, 399.
Clark, W. E., XVII, 478.
Clarke, Sa., XVIII, 519.
Clarke, So., XVII, 533.
Claudius (imperator), XVII, 474.
Clauser, C., XVI, 493.
Clemen, C., XVII, 606.
Clemens, J. R., XVII, 608.
Clerc, M., XVII, 540.
Clerval, abbé, XVI, 191, 192.
Cloché, P., XVIII, 483.
Close, C., XVII, 589, 618; XVIII, 508.
Clowes, G. S. L., XVII, 582.
Clusius, C., XVI, 440.
Cluyt, O., XVII, 504.
Cochrane, C. N., XVIII, 441.
Cochrane, J. A., XVII, 513.
Codazzi, A., XVII, 481.
Codera, F., XVIII, 166.
Coedès, G., XVII, 551.
Cohausen, J. H., XVII, 511.
Cohen, C., XVII, 607.
Cohen, G., XVIII, 484.
Cohen, H., XVII, 486.
Cohen, L., XVIII, 490.
Cohen, M. R., XVII, 574; XIII, 494.
Cohn, A., XVIII, 505.
Cohn, A. E., XVIII, 408.
Cohn, S., XVIII, 388.
Cole F. J., XVI, 463-65; XVIII, 508.
Colebrooke, H. T., XVII, 26.
Coleridge, G. F., XVII, 604.
Coleridge, S. T., XVII, 278.
Colin, E., XVI, 557.
Collard, A., XVI, 507; XVIII, 477.
Collina, G., XVIII, 466.
Collingwood, R. G., XVI, 520.
Collins, J., XVII, 466.
Collins, S., XVI, 499.
Colombo, D. F., XVII, 491.
Colombus, C., XVI, 489, 558; XVII, 423, 490, 491, 492; XVIII, 79, 345, 346, 456.
Comenius, XVI, 496, 497.
Compter, G., XVIII, 476.
Comrie, J. D., XVI, 566.
Comte, A., XVI, 156, 545; XVII, 524; XVIII, 365, 370, 473.
Comtino, M., XVII, 54-71.
Conant, K. J., XVI, 485.
Condillac, E. B. de, XVII, 432.
Conduitt, J., XVII, 330.
Confucius, XVIII, 218, 219, 221.
Conger, G. P., XVIII, 492.
Conington, J., XVI, 398.
Conrady, A. E., XVI, 499.
Constant, B., XVIII, 365.
Constantinos the Great, XVII, 477.
Contantinus Africanus, XVI, 485;

XVII, 437, 483; XVIII, 31, 452.
Contag, E., XVI, 556.
Contenau, G., XVIII, 479.
Conway, Ag., XVII, 565; XVIII, 380.
Conway, An., XVI, 141-43; XVIII, 100 ff., 463.
Conway, A. W., XVII, 520.
Cook, J., XVII, 514, 516; XVIII, 357, 468.
Cook, S. A., XVII, 541, 564.
Cooke, J. P., XVIII, 501.
Cooke, M. C., XVIII, 146 ff.
Coomaraswamy, A. K., XVII, 552.
Cooper, S., XVIII, 196.
Cooper, T., XVI, 305; XVIII, 135, 501.
Cope, E. D., XVIII, 368.
Copernic, N., XVI, 136-38; XVII, 104, 106; XVIII, 79.
Coquillet, W. D., XVII, 449.
Cornell, H., XVI, 521.
Corner, G. W., XVI, 485; XVIII, 342.
Cornet, F. L., XVIII, 373.
Cornet. J., XVIII, 372 f.
Cornil, P., XVIII, 515.
Corović, V., XVIII, 524.
Corrigan, D., XVI, 506.
Corsini, A., XVIII, 466.
Corti, A., XVII, 528.
Corti, E. C., XVIII, 364.
Corvisart, J. N., XVI, 506; XVII, 523.
Costanzi, M. E., XVII, 524.
Cotton, R., XVII, 506.
Couch, J. F., XVI, 552, 573.
Coulbeaux, J. B., XVII, 603.
Coulton, G. G., XVI, 521; XVII, 543.
Cournot, A. A., XVIII, 365.
Courret, G., XVI, 574.
Court, T. H., XVI, 550.
Crafts, J. M., XVIII, 501.
Cranc, C., XVII, 488.
Crandall, *see* Saunders, XVIII, 508.
Crane, G. R., XVIII, 404.
Cravener, E. E., XVIII, 453.
Crescas, XVI, 489.
Creel, H. G., XVI, 534.
Cremer, J., XVIII, 304.
Cresques, A., XVII, 490.
Cresques, J., XVII, 490.
Cressy, E., XVIII, 375.
Creutz, R., XVIII, 451, 452.
Crèvecœur, St J. de, XVI, 121.
Cridler-Segonne, L., XVIII, 469.
Crinò, S., XVII, 491.
Cripps-Day, F. H., XVII, 543.
Crommelin, C. A., XVII, 563.
Cromwell, W., XVIII, 353, 462.
Crookes, W., XVI, 552; XVII, 390.
Cros, G., XVII, 579; XVIII, 395, 495.
Croskey, J. W., XVI, 572.
Cross, F. L., XVIII, 520.
Crowfoot, G. M., XVII, 533.
Cruikshank, W. A., XVI, 318, 320, 334.
Crump, P. E., XVI, 500.
Csoma, A., XVI, 180.
Ctesibios of Alexandria, XVII, 279 f., 414.
Cudel, R., XVII, 585.
Culpeper, N., XVI, 499; XVIII, 351.
Cuming, E. D., XVII, 512.
Cumont, F., XVII, 542; XVIII, 407.
Cunliffe, R. J., XVIII, 441.
Cuny, C., XVII, 527.
Curnow, I. J., XVII, 589; XVIII, 404.
Currie, T. R., XVII, 528.

Curtis, F. D., XVIII, 529.
Curtis, M. A., XVIII, 133, 138 ff.
Cusa, N. de, XVI, 526; XVIII, 353.
Cushing, H., XVIII, 391.
Cuthbert, XVIII, 520.
Cutler, C., XVII, 582.
Cutter, I. S., XVII, 466.
Cutter, J. B., XVI, 572.
Cutting, S., XVIII, 373.
Cuvier, G., XVIII, 333.
Cuvillier, A., XVII, 605.
Czermak, XVIII, 527.
Czortkowski, N., XVI, 537.
Czwalina, A., XVIII, 498.

D

Da Costa, J. C., XVIII, 409.
Dagan, M., XVIII, 356.
Dagen, G., XVIII, 466.
Daels, F., XVI, 502.
Dains, F. B., XVII, 522.
Dalbanne, C., XVII, 491.
Dale, A. van, XVIII, 464.
Dale, T., XVI, 493, 502; XVIII, 467.
Dallas, A. K., XVII, 606.
Dallaway, XVIII, 303.
Dalton, E. W., XVI, 379-92; XVIII, 471
Dalton, J., XVI, 504, 552.
Dalton, O. M., XVI, 202.
Damascenus, J., XVII, 482; XVIII, 27, 29, 50, 51.
ad-Damīrī, XVI, 13.
Damon, S. F., XVIII, 362.
Dampier, W., XVI, 499.
Dampier-Whetham, W. C., XVI, 544.
Dana, R. H., XVI, 116.
Daniel of Merlai, XVIII, 14 ff.
Dante, A., XVI, 487; XVII, 488, 489; XVIII, 455, 456.
Dantzig, T., XVI, 455-59; XVIII, 393, 495.
Daquin, J., XVIII, 526.
Darembergs, C., XVI, 510; XVIII, 338, 340, 409, 414.
Daressy, G., XVI, 103; XVII, 6, 534.
Darmesteter, A., XVII, 483.
Darmstaedter, E., XVII, 474, 494, 496, 521, 608; XVIII, 322-29, 336, 347, 474.
Dart, R., XVI, 561.
Darwin, C., XVI, 157 f., 508, 509; XVII, 207, 522, 584; XVIII, 77, 471.
Darwin, E., XVII, 516; XVIII, 356.
Darwin, F., XVII, 207.
Darwin, G., XVI, 160.
Das, S. R., XVI, 531; XVIII, 385, 432-37.
Daspa, J., XVI, 486.
Datta, B., XVI, 482, 532, 533; XVII, 25-33, 484, 552; XVIII, 385, 386.
Daudin, H., XVII, 427.
Davenport, C. B., XVIII, 505.
David, A., XVII, 260.
David b. Joseph Quimḥi, XVII, 486.
David-Neel, A., XVI, 529; XVII, 549; XVIII, 486.
Davids, R., XVII, 478; XVIII, 487.
Davidson, I., XVI, 536, 539.
Davies, A. M., XVIII, 372.
Davies, J. D. G., XVI, 521.
Davies, N. de Garis, XVIII, 480.
Davis, H. T., XVI, 158-61, 451-55, 547; XVII, 273-77; XVIII, 204-206.
Davis, T. L., XVI, 82-91; XVII,

440-43, 475, 602; XVIII, 210-89, 359, 501, 502.
Davis, W. M., XVI, 122.
Davison, C., XVII, 592.
Davy, H., XVI, 504, 552; XVII, 403; XVIII, 357.
Dawson, B., XVII, 608; XVIII, 409.
Dawson, C., XVIII, 446.
Dawson, W. L., XVII, 446.
Dawson, W. R., XVI, 506; XVII, 523; XVIII, 472.
Dawson, W. T., XVIII, 369.
Deakin, W. H., XVII, 399.
Dean, B., XVI, 555, 561; XVIII, 399.
Dearmer, P., XVIII, 520.
Dedekind, R., XVI, 458, 507; XVIII, 474.
Dee, J., XVII, 105, 107, 113, 116, 500; XVIII, 290, 347.
Degering, H., XVI, 564; XVIII, 518.
Dehalu, M., XVII, 588.
Dehérain, H., XVIII, 356.
Deichgräber, K., XVII, 540; XVIII, 445.
Delafosse, M., XVII, 569.
Delambre, J. B. J., XVI, 234.
Delaunay, P., XVI, 566, 567; XVII, 599; XVIII, 523.
Delicado, F., XVIII, 347.
Delitsch, H., XVIII, 518.
Delong, J. F., XVII, 528.
Demoor, J., XVIII, 510.
Dempf, A., XVII, 543.
Dempster, J. H., XVIII, 408.
Denman, T., XVIII, 417.
Denninger, H. S., XVI, 573.
Dens, R., XVIII, 364.
Dentz, F. O., XVI, 506; XVIII, 476.
Deny, J., XVII, 569.
Deonna, W., XVIII, 381.
Dept, G. G., XVIII, 509.
Derenbourg, H., XVIII, 166 ff.
Dermenghem, E., XVIII, 449.
Desargues, G., XVII, 432.
Descamps, E., XVII, 607.
Descamps, P., XVI, 562.
Descartes, R., XVI, 491, 494; XVII, 171-208, 403, 432, 473, 503, 506; XVIII, 92 f., 111, 158, 159, 350, 351, 460; and passim.
Deschamps, A., XVII, 471.
Deschamps, P., XVI, 522; XVII, 545; XVIII, 383.
Desnoyers, L., XVII, 564.
Dessoir, M., XVII, 453; XVIII, 517.
de Toni, E., XVIII, 64.
Devi, A. K., XVIII, 386.
Devresse, R., XVII, 478.
Dewar, A., XVII, 511.
Dewar, D., XVIII, 401 f.
Dewey, J., XVIII, 511.
Dexter, F. B., XVI, 304.
Dexter, T. F. G., XVII, 599.
Dhalla, M. N., XVII, 568.
Dicaearchos, XVIII, 337.
Dickinson, B. B., XVIII, 367.
Dickinson, H. W., XVIII, 127-32.
Dickstein, S., XVII, 421-23; XVIII, 330-32.
Didier, L., XVIII, 509.
Dieck, W., XVIII, 160.
Diepgen, P., XVII, 573, 609; XVIII, 409.
Diercke, P., XVII, 494.
Diergart, P., XVI, 500, 544.
Diesselhorst, H., XVIII, 499.
Dietrich, A., XVII, 527.
Dieudonné, A., XVIII, 476.
Digby, K., XVI, 86, 143; XVIII, 114.

Digges, T., XVII, 105.
Dihle, H., XVIII, 472.
Dikshit, S. B., XVII, 25, 26, 33.
Dikshitar, V. R. R., XVII, 552.
Dilthey, W., XVIII, 519.
al-Dimishqī, *see* 'Uthmān al-Dimishqī, abū.
Dingler, H., XVIII, 381 f., 392.
Dingwall, E. J., XVII, 532, 596.
Diocles of Carystos, XVIII, 336.
Diogenes Laërtios, XVII, 476.
Dyonysos Aeropagita, XVII, 478.
Diophantos, XVI, 519; XVII, 390; XVIII, 445.
Dioscorides, XVI, 439; XVII, 420.
Disselhorst, R., XVI, 145.
Dixon, J., XVII, 127, 138.
Dixon, W. H., XVI, 198.
Dobelb, C., XVIII, 353.
Dodge, R., XVIII, 405.
Dodonaeus, R., XVII, 499.
Döbereiner, J. W., XVII, 521; XVIII, 501.
Döllinger, I., XVI, 322, 327 f.
Dörpfeld, W., XVII, 540; XVIII, 441.
Dörries, H., XVII, 522, 589.
Dold, A., XVII, 479, 480.
Dolet, E., XVIII, 347.
Dollond, XVII, 164.
Dombart, T., XVII, 539.
Dombasle, M. de, XVI, 505.
Dombrowski-Ramsay, N., XVII, 605.
Doninck, A. van, XVI, 565; XVII, 517; XVIII, 528.
Donnan, F. G., XVI, 555.
Donnazolo, P., XVII, 590.
d'Ooge, M. L., XVII, 404.
Dopp, H., XVII, 525; XVIII, 371.
Dorner, O., XVII, 580.
Dorsenne, J., XVII, 515. 524.
Dorsey, J., XVI, 286, 305.
Dorsey, J. S., XVI, 507.
Dorslaer, G. van, XVII, 499.
Dorveaux, P., XVIII, 58, 355.
Dostal-Winkler, J., XVII, 518.
Dotterer, R. H., XVIII, 392.
Doubleday, F. N., XVIII, 525.
Doublet, E., XVI, 551; XVII, 526.
Doughty, A. G., XVIII, 352.
Douglas, N., XVIII, 528.
Douvrier, B., XVI, 496.
Dove, C. C., XVIII, 445.
Dow, G. F., XVI, 122.
Draguet, R., XVII, 474.
Drake, F., XVII, 499, 500; XVIII, 347.
Drake, T. G. H., XVII, 609.
Draper, D., XVII, 390.
Drecker, J., XVI, 200-19, 448; XVIII, 451.
Drescher, K., XVII, 486.
Dressler, B., XVII, 616.
Drewitt, F. D., XVII, 435, 515; XVIII, 468.
Dreyer, I. L. E., XVI, 492.
Driesch, H., XVIII, 394.
Droz, E., XVII, 491.
Dschezla, ibn, *see* Jazla, ibn.
Duane, XVIII, 187.
Dubar, L., XVIII, 469.
Dubs, H. H., XVIII, 443.
Ducati, P., XVIII, 383.
Duchâtelet, Mme, XVII, 403, 512.
Duckett, E. S., XVII, 477.
Duclos, S. C., XVI, 443 ff.
Ducros, M. A. H., XVII, 569.
Duduc, XVI, 197.
Dürer, A., XVIII, 160.
Dürr, K., XVI, 497; XVII, 509.
Dufourcq, A., XVIII, 520.
Dulong, P. L. XVIII, 124.
Dumas, J. B., XVI, 318 ff., 552.

Duméril, H., XVIII, 474.
Dunbar, H. F., XVI, 522.
Duncan, D., XVII, 601.
Dunham, C. F., XVI, 565.
Dunlap, K., XVIII, 511.
Dupont-Ferrier, G., XVIII, 484.
Dupuytren, G., XVIII, 364.
Durand, D. B., XVII, 214.
Dutcher, G. M., XVII, 453-64.
Duthuit, G., XVIII, 480
Duyvendak, J. J. L., XVII, 558; XVIII, 442.
Dvivedi, M. N., XVII, 555.
Dvivedi, S., XVII, 25, 26, 33.
Dyck, W. v., XVI, 494; XVII, 503; XVIII, 199, 460.
Dyer, F. L., XVIII, 366.
Dyroff, A., XVI, 479.
Dyson, F. W., XVI, 550.

E

Earle, J., XVII, 97.
Eastman, G., XVII, 525.
Eaton, W. P., XVII, 446.
Ebeling, E., XVII, 539; XVIII, 380.
Ebengreuth, A. L. v., XVI, 176.
Eberlein, K. K., XVII, 518.
Ebermann, O., XVII, 582.
Ebers, G. M., XVII, 534.
Ebisch, W., XVII, 501.
Ebstein, E., XVI, 567; XVII, 522, 609; XVIII, 463.
Echard, J., XVII, 35.
Eckardt, A., XVII, 562, 563.
Eckstein, G., XVII, 531; XVIII, 200-02, 374.
Eckstein, K., XVI, 556.
Eddington, A. S., XVII, 578, 607; XVIII, 197, 395.
Eddy, M. B., XVII, 612.
Edelstein, L., XVII, 470.
Eden, R., XVII, 113.
Edgerton, F., XVIII, 486.
Edghill, E. M., XVIII, 443.
Edhem, K., XVI, 540.
Edib, H., XVII, 439.
Edison, T. A., XVIII, 366.
Edkins, J., XVIII, 223, 225.
Edward the Confessor, XVI, 197.
Eecke, P. ver, XVII, 540.
Efflatoun, B. H. C., XVI, 556.
Egli, M., XVII, 585.
Ehrlich, P., XVI, 434, 552.
Eichstadius, L., XVIII, 418.
Einstein, A., XVI, 510; XVII, 273, 326, 507, 607; XVIII, 395 f., 477.
Eleonore d'Aquitaine, XVII, 431.
Elder, J. R., XVII, 590.
Elgood, C., XVIII, 414.
Eliade, M., XVII, 552, 553; XVIII, 486.
Elisabeth v. Thüringen, XVIII, 454.
Ellekilde, H., XVII, 545.
Ellenbog, U., XVII, 492.
Eller, J. T., XVI, 446.
Ellinger, G., XVII, 497.
Ellis, B. A., XVIII, 361.
Ellis, H., XVIII, 505.
Ellis, L. B., XVI, 122.
Elsberg, C. A., XVII, 534; XVIII, 378.
Elyot, T., XVIII, 347.
Emanuelli, P., XVIII, 460, 483.
Emerson, W., XVII, 127.
Emery, J., XVII, 260.
Emo, XVI, 527.
Emory, K., XVII, 511.
Enderby, C., XVI, 379, 390.
Enestroem, G., XVI, 406, 410; XVII, 401; XVIII, 152, 162.
Engelbach, R., XVII, 542.

Engelmann, G., XVIII, 515.
Engemann, W., XVII, 518.
Englebert of St. Laurent, XVI, 191.
Engler, A., XVIII, 475.
Englert, L., XVI, 809; XVII, 480, 500.
Enlart, C., XVI, 522.
Enrique de Aragon, XVIII, 456.
Enriques, F., XVII, 406, 540.
Erasmus, D., XVII, 78, 90, 496, 497; XVIII, 458.
Eratosthenes, XVII, 405, 473; XVIII, 382.
Erben, W., XVI, 522.
Ercole, F., XVII, 488.
Eriksson, J. V., XVII, 494.
Eriksson, L., XVI, 482; XVIII, 342.
Erlinger, G., XVII, 494.
Erman, A., XVI, 106, 512.
Ermerins, F. Z., XVIII, 338.
Ern, C. F., XVI, 507.
Esenbeck, C. G. N. v., XVI, 144.
Espejo, A. de, XVII, 499.
Esser, A. A. M., XVII, 553.
Essig, E. O., XVII, 447-50, 586.
Ethelred the Unready, XVI, 482.
Euclides, XVI, 132-36, 222 ff., 549; XVII, 55 ff., 472, 562; XVIII, 445; and passim.
Eudocie, XVIII, 446.
Euler, J. A., XVII, 510.
Euler, L., XVII, 337 f., 405, 510.
Euraclus, XVI, 190.
Evans, A., XVI, 511; XVII, 529.
Evans, G., XVII, 528.
Evans, J., XVII, 543, 604.
Evans, J. W., XVIII, 372.
Evans, L., XVI, 545.
Evelyn, J., XVIII, 98, 114 f.
Evers, H. G., XVIII, 378.
Eyck, S. van der, XVIII, 120, 122, 124.

F

Faber, G., XVIII, 157.
Faber, K., XVII, 609.
Fabre, L., XVII, 518.
Fabri, H., XVI, 497.
Fabricius, H. ab Aquapendente, XVI, 316; XVIII, 80, 459.
Fabricius, J. C., XVII, 516.
Facchinetti, V., XVII, 491.
Facciolati, J., XVII, 36.
Färber, E., XVI, 425-38, 498; XVIII, 471, 474, 501.
Färber, M., XVI, 498.
Fagon, G. C., XVII, 509.
Fahie, J. J., XVI, 494.
Fahrenheit, D. G., XVIII, 465.
Fairchild, H. P., XVIII, 497.
Fairclough, H. R., XVIII, 479.
Falck, C. P., XVIII, 362.
Falco, V. de, XVI, 518.
Fancev, F., XVIII, 524.
al-Fārābī, XVI, 541; XVII, 46.
Faraday, M., XVI, 504 f., 546, 552; XVII, 159, 276, 420, 521; XVIII, 77, 121 ff., 185 ff., 359, 360, 361, 471.
Faragola, P., XVIII, 455.
Faraj, abū-l, XVII, 487; XVIII, 454-55.
Faral, E., XVII, 543.
Fargin-Fayolle, P., XVIII, 478.
Farḫūn, ibn, XVIII, 169.
Farinelli, A., XVI, 487.
Farlow, W. G., XVIII, 149.
Farmer, H. G., XVI, 540; XVII, 278-82, 544, 569; XVIII, 385, 484, 517.
Farquhar, F. P., XVII, 527.
Farr, W., XVI, 473.
Farrington, B., XVIII, 441.
Faucci, U., XVI, 500.

Fauchard, P., XVII, 511; XVIII, 466.
Faust, B. C., XVIII, 472
Favaro, A., XVII, 36.
Favaro, A. N., XVII, 401.
Favaro, G., XVII, 493; XVIII, 466.
Favre, A., XVI, 277, 449-50; XVIII, 464.
Faÿ, B., XVII, 510.
Fay, M. I., XVII, 506.
Fay, S. B., XVII, 453-64.
Fayol, A., XVII, 523; XVIII, 362.
Fazy, R., XVII, 472.
Fearing, F., XVII, 595.
Feavearyear, A. E., XVIII, 514.
Feldhaus, F. M., XVI, 167-69, 553; XVIII, 500, 503.
Feldmann, F., XVIII, 193.
Feijfer, F. M. G., XVI, 493; XVIII, 457.
Fellows, R. B., XVIII, 360.
Ferchl, F., XVIII, 501.
Ferguson, A., XVII, 519.
Ferguson, J., XVI, 492; XVII, 71-93; XVIII, 348, 399, 459.
Ferguson, J. C., XVIII, 387.
Ferguson, M., XVII, 618; XVIII, 530.
Fermat, P. de, XVII, 502; XVIII, 161.
Fernandez, J., XVI, 500.
Ferrand, G., XVII, 269, 481.
Ferrara, O., XVII, 497.
Ferrario, E., XVII, 292.
Fesche, C. F. P., XVII, 514.
Fettweis, E., XVIII, 495.
Fewkes, J. W., XVIII, 477.
Feyerabend, E., XVIII, 366.
Fibiger, J., XVI, 571.
Fibonacci, L., *see* Leonardo Pisano.
Fiebig, P., XVI, 536.
Field, J., XVII, 104.
Figuier, L., XVII, 409.
Filchner, W., XVI, 529, 540
Filippoff, L., XVI, 512-14, 550 f.
Finch, J., XVI, 142.
Finé, O., XVII, 213.
Finke, H., XVIII, 384.
Finkel, B. F., XVII, 525.
Finkenrath, K., XVIII, 363.
Fiorentini, C., XVII, 511.
Firdawsī, XVI, 482.
Fischel, W., XVIII, 444.
Fischer, A., XVI, 567; XVIII, 472.
Fischer, E., XVI, 441, 552; XVIII, 500.
Fischer, He., XVII, 544; XVIII, 63 f., 457, 484.
Fischer, Hu., XVI, 504; XVII, 438.
Fischer, L. A., XVI, 449.
Fischer, M., XVI, 554.
Fischer, N., XVIII, 508.
Fitzgerald, G. F., XVII, 525.
Fladt, K., XVII, 405; XVIII, 470.
Flamsteed, J., XVI, 234, 258, 265; XVII, 334, 368, 380.
Fleetwood, F., XVIII, 373.
Fleger, J., XVIII, 524.
Fletcher, P., XVIII, 351.
Fleure, H. J., XVII, 598; XVIII, 512.
Flexner, A., XVI, 574.
Flexner, S., XVI, 510.
Fliche, A., XVI, 522.
Flückiger, F. A., XVII, 437 f.; XVIII, 58.
Flugel, J. C., XVIII, 511.
Fobes, F. H., XVIII, 443.
Focillon, H., XVI, 520.
Foerster, N., XVI, 564.
Foillet, J., XVIII, 463.
Folger, P., XVI, 119.
Folger, T., XVI, 119.
Foligno, C., XVI, 522.

Foliot, G., XVIII, 15.
Follin, F. A. E., XVIII, 369.
Fontana, F., XVII, 517.
Fontenelle, B. de, XVII, 433, 435, 510; XVIII, 464.
Forbes, V. S., XVIII, 498.
Forbush, E. H., XVII, 446.
Forchhammer, J. G., XVIII, 472.
Ford, E., XVIII, 352.
Ford, J. D. M., XVII, 497.
Ford, W. H. de, XVIII, 476.
Fordyce, W., XVII, 127.
Forest, L. de, XVI, 510.
Forestus, P., XVI, 493.
Fortescue, J., XVIII, 371.
Forti, U., XVIII, 350, 460.
Fosseyeux, M., XVII, 610.
Fossier, A. E., XVII, 615.
Foster, J., XVIII, 104.
Foster, M. L., XVII, 499.
Foster, W., XVII, 500.
Foucault, L., XVIII, 366.
Fouchard, P., XVIII, 525.
Foulet, A., XVII, 487.
Fourcroy, A. F. de, XVI, 443, 552; XVII, 433.
Fourier, J., XVII, 395.
Fourier, J. B. J., XVI, 502; XVIII, 124.
Fracastoro, G., XVI, 138-41, 490, 491; XVIII, 347, 458.
Fox, C., XVIII, 503.
Fox, J., XVIII, 525.
Fraenkel, A., XVI, 507; XVIII, 474.
Fraenkel, H., XVIII, 338, 340.
Fraenkel, K., XVII, 526; XVIII, 367.
Frampton, J., XVII, 488.
Franceschi, P., XVII, 397.
Francesco of Assisi, XVII, 487.
Franchet, L., XVIII, 446.
Franchini, J., XVI, 501; XVII, 528; XVIII, 369, 465.
Francisco Xavier, St., XVII, 494, 498.
Franck, S., XVI, 526.
Francke, H. A., XVII, 549.
Frank, A., XVI, 552.
Frank, C., XVI, 517.
Frank, J. P., XVII, 610.
Frank, L., XVIII, 363.
Frank, P., XVIII, 371.
Frank, T., XVII, 512, 542.
Franke, A., XVIII, 189.
Franke, J., XVII, 499.
Franke, O., XVII, 558.
Franklin, B., XVI, 119; XVII, 510.
Franklin, J., XVI, 119.
Franklin, K. J., XVIII, 463.
Fraser, E. D. H., XVII, 470.
Fraser, H. M., XVII, 532.
Fraser-Harris, D. F., XVI, 570.
Frati, L., XVII, 49.
Frazer, J. G., XVII, 599, 600; XVIII, 339, 483.
Frazer, P., XVIII, 368.
Frédéricq, L., XVIII, 511.
Fredholm, I., XVII, 525.
Freeburg, V. O., XVII, 529.
Freeman, E., XVI, 197.
Freeman, W., XVI, 503.
Freitas, J. de, XVII, 489.
Fremantle, C. H., XVII, 522.
French, C., XVII, 516.
Frénicle, de Bessy B., XVII, 502.
Freshfield, E. H., XVI, 528.
Fresnel, A. J., XVII, 154 ff.; XVIII, 124.
Freud, H., XVI, 502.
Freud, S., XVII, 612.
Freudenberg, C., XVI, 441.
Freudenthal, H., XVII, 599.
Freundorfer, J., XVII, 474.

Fricke, R., XVI, 507; XVIII, 474.
Friedel, D., XVIII, 466.
Friederici, G., XVII, 590.
Friedlaender, I., XVII, 588.
Friend, J., XVIII, 467.
Fritz, J., XVIII, 457, 459.
Frobenius, L., XVII, 596; XVIII, 513, 517.
Frobisher, M., XVIII, 347.
Froehner, R., XVIII, 455, 463, 469.
Frost, W. H., XVII, 464.
Fruchaud, XVII, 609.
Fuchs, C. F., XVIII, 414.
Fuchs, C. H., XVIII, 347.
Fuchs, M., XVII, 431-33.
Fuchs, W., XVI, 480.
Fuhlrott, J. C., XVII, 527.
Fuhse, F., XVI, 177.
Fulbert de Chartres, XVI, 191 f., 200, 483.
Fuld, E., XVII, 469.
Fulgosus, B., XVI, 178.
Fuller, J. E., XVII, 394.
Fullwood, G., XVI, 60, 70 ff.
Fulton, J. F., XVI, 174-76; XVII, 506, 594; XVIII, 77-102, 347, 460, 511.
Funk, C., XVII, 531.
Furlani, G., XVII, 539; XVIII, 482.
Furon, XVIII, 512.
Fusch, R., XVI, 490.

G

Gal, L., XVI, 522.
Galenos, XVI, 316, 479; XVII, 476, 480; XVIII, 31, 33, 36, 42, 79, 338, 339, 340, 444 f., 527; and passim.
Galilei, G., XVI, 494, 574; XVII, 96, 171-208, 326, 399, 427-29, 503, 504; XVIII, 350, 351, 460.
Galilei, V., XVII, 185.
Gall, F. J., XVI, 506.
Gallatin, A., XVI, 305.
Gallus, A., XVIII, 337.
Galpin, F. W., XVII, 278, 281; XVIII, 385.
Galvani, L., XVIII, 77.
Galtier, G., XVI, 496.
Gama, V. de, XVI, 558.
Gambioli, D., XVII, 391.
Gandz, S., XVI, 132-36, 393-424, 537; XVII, 261 ff.; XVIII, 193-95, 496.
Ganguli, S., XVII, 576.
Ganong, W. F., XVII, 491, 590.
Garband, T., XVIII, 462.
Garbe, R. v., XVII, 553.
Garcia, M., XVIII, 527.
Garcia ab Horta, XVIII, 348, 461.
Garçon, M., XVII, 508; XVIII, 463.
Gardiner, A., XVIII, 378.
Gardiner, E. N., XVII, 472; XVIII, 382, 479.
al-Gardīsī, XVI, 9.
Gardner, C. S., XVIII, 488.
Garland, XVII, 534.
Garnett, D., XVII, 510.
Garnett, H., XVI, 504.
Garrison, F. H., XVI, 469, 567; XVII, 610; XVIII, 523.
Garry, J. G., XVIII, 480.
Garvie, A. E., XVIII, 521.
Gask, G. E., XVI, 568; XVIII, 412.
Gassendi, P., XVIII, 350.
Gastoué, A., XVII, 547.
Gathorne-Hardy, G. M., XVIII, 342.
Gauche, F., XVIII, 351.
Gauss, K. F., XVII, 391, 395; XVIII, 358, 470.

Gautier, E. F., XVIII, 389.
Gautier de Chatillon, XVII, 486.
Gaylord, H. R., XVI, 571.
Gay-Lussac, J. L., XVI, 552.
Gebauer, C., XVIII, 466.
Geber, *see* Jābir ibn Ḥayān.
Geber (pseudo), XVI, 552.
Geddes, P., XVIII, 403.
al-Gedosi, XVI, 542 f.,
Geffcken, J., XVI, 528; XVII, 532.
Geiger, A., XVI, 537.
Geiger, W., XVII, 553; XVIII, 486.
Geiser, K. F., XVIII, 515.
Geisler, K. W., XVI, 553.
Gélis, E., XVII, 394, 502.
Genet, J., XVII, 596.
Gennep, A. van, XVII, 534.
Gent, W., XVII, 574.
Gentil, K., XVII, 526.
Gentile da Foligno, XVIII, 195.
Genty, V., XVIII, 369, 469.
Geodartius, XVII, 311 f.
Geoffrey of Hereford, XVIII, 19.
Geoffrey of Monmouth, XVI, 485; XVII, 485.
Geoffroy, C. J., XVI, 552.
Geoffroy, E. F., XVIII, 355.
Geoffroy Saint-Hilaire, E., XVI, 546.
Georg, E., XVII, 602.
George of Trebizond, XVI, 447.
Georgii, W., XVIII, 503.
Gerald of Wales, XVIII, 19, 20.
Gerard, XVIII, 507 f.
Gerardo of Cremona, XVI, 405, 414; XVII, 46, 53; XVIII, 22, 27, 28.
Gerbert, XVI, 188, 192, 194, 196, 201, 394, 411 ff.; XVII, 220 ff., 262, 482; XVIII, 203.
Gerhard, D., XVIII, 365.
Gerhard, W. W., XVIII, 473.
Gerhardt, C., XVI, 504, 552.
Gerlach, K., XVIII, 510.
Gerland, XVII, 392.
Germanus, N., XVIII, 353.
Gersonides, *see* Levi ben Gerson.
Gerstinger, H., XVIII, 483.
Gertrude de Nivelles, Ste, XVIII, 447.
Gesner, K., XVI, 490.
Geuther, J. G. A., XVIII, 501.
Gezelius, B., XVII, 563.
Ghallab, M., XVII, 534.
Ghani, Muḥ. 'Abdul, XVII, 568.
al Ghazālī, XVIII, 447.
Ghāzī al-Miknāsī, ibn, XVIII, 177, 181, 183.
Ghetaldi, M., XVIII, 158.
Ghosh, B., XVI, 532.
Gibb, H. A. R., XVIII, 345.
Gibbon, E., XVII, 519.
Gibbs, J. W., XVIII, 501.
Gibbs, O. W., XVIII, 501.
Gibbs, W. E., XVI, 546.
Gibson, S., XVII, 544, 616.
Gidon, F., XVI, 468; XVIII, 523.
Giel, T., XVIII, 368.
Giesecke, W., XVII, 596.
Gigliolo, G. Q., XVIII, 383.
Gilbert, J. E., XVIII, 370.
Gilbert, W., XVII, 96 ff., 105, 116, 171-208; XVIII, 347.
Giles, H. A., XVII, 558; XVIII, 215, 217, 220.
Gilinus, C., XVII, 491.
Gill, C. A., XVI, 570.
Gilles, M., XVII, 615.
Gillis, I. V., XVIII, 387.
Gillray, J., XVIII, 472.
Gilson, E., XVIII, 350, 446.
Gimlette, J. D., XVII, 551.
Gini, C., XVIII, 497.

Ginzberg, L., XVI, 538; XVII, 565.
Ginzburg, B., XVI, 157-58; XVIII, 493.
Ginsburg, J., XVI, 551.
Giordano, D., XVII, 609.
Giovanni de Albertis, XVI, 471.
Giovanni da' Fontana, XVI, 488; XVII, 34-53, 490.
Girardet, F., XVIII, 457.
Gisa, XVI, 197.
Giuffrè, L., XVIII, 466.
Giuli, G. de, XVII, 188 f.; XVIII, 351.
Giustiniani, A., XVII, 92.
Gladstone, E., XVIII, 336.
Glanvill, J., XVIII, 103 ff.
Glanvill, W., XVIII, 103 ff.
Glanville, J., XVII, 510.
Glasenapp, H. v., XVII, 553.
Glasser, O., XVIII, 366.
Glauber, I. R., XVI, 552.
Glazebrook, R., XVII, 580.
Glazebrook, R. T., XVIII, 397.
Glendinning, H., XVII, 474.
Gliozzi, M., XVII, 580; XVIII, 352, 399.
Glockner, H., XVII, 524.
Glosemeyer, J., XVIII, 418.
Glotz, G., XVI, 519.
Glover, T. R., XVIII, 338.
Glück, L., XVIII, 525.
Gobineau, A., XVIII, 206.
Goddard, D., XVII, 563.
Goddard, J., XVIII, 353, 462.
Goddard, T. R., XVII, 618; XVIII, 361.
Godwin, F., XVIII, 110.
Godwin, G. S., XVII, 515.
Goessler, P., XVII, 540; XVIII, 441.
Goethe, J. W., XVI, 143-45, 503, 505; XVII, 518; XVIII, 468.
Goichon, A. M., XVI, 540.
Goldring, W., XVIII, 530.
Goldschmidt, A., XVI, 485.
Goldschmidt, F., XVII, 474.
Goldschmidt, L., XVI, 537; XVII, 565.
Goldstrom, J., XVIII, 371.
Goligher, W. A., XVII, 161.
Golius, XVII, 101, 575.
González Palencia, A., XVII, 501.
Gooch, F. A., XVIII, 501.
Goode, G. B., XVIII, 368.
Goodenough, E. R., XVII, 473.
Goodland, R., XVIII, 513.
Goodspeed, E. J., XVII, 474.
Gookin, D., XVIII, 97.
Goossens, R., XVIII, 446.
Gordon, F. G., XVII, 532, 596.
Gorgas, W. C., XVI, 473.
Gorrie, J., XVIII, 360.
Gorsleben, R. J., XVI, 563.
Gottheil, R. J. H., XVI, 481; XVII, 565.
Gottschalk, XVIII, 450.
Gough, J. W., XVI, 559.
Gouhier, H. G., XVII, 524.
Goulard, R., XVII, 508, 615.
Graaf, R. de, XVI, 323, 334 ff.; XVII, 508.
Grabmann, M., XVI, 522.
Graebe, E., XVI, 432.
Graf, W., XVI, 499.
Graham, G., XVI, 234, 242, 247, 293, 501; XVII, 127-53 (portr.), 335, 348 f., 510; XVIII, 354.
Graham, T., XVI, 552.
Graham, W. C., XVIII, 454.
Grammaticos, J., XVIII, 447-48, 449; and *see* Philoponos, J.
Grancsay, S. V., XVI, 561.
Grande, C. del, XVIII, 480.
Grandi, G., XVIII, 464.

Granet, M., XVI, 534; XVII, 559.
Grant, C., XVI, 120.
Grapow, H., XVII, 534.
Graulle, A., XVIII, 169.
Gravenbergh, A. F., XVIII, 476.
Graves, B., XVII, 446.
Graves, R. P., XVII, 154, 160.
Gray, A., XVII, 603.
Gray, C. C., XVIII, 503.
Gray, E., XVI, 482; XVIII, 342.
Greatrakes, V., XVI, 142.
Greef, R., XVIII, 503.
Greely, A. W., XVII, 530.
Green, H., XVI, 118.
Greene, B. da Costa., XVI, 574.
Greene, H. C., XVII, 482.
Greene, R., XVII, 108, 110.
Greenhill, W. A., XVIII, 38, 335, 339.
Greenstreet, W. J., XVII, 577.
Greenwood, J. G., XVI, 478.
Greenwood, T., XVII, 573.
Grégoire, H., XVII, 586.
Gregorio, S., XVIII, 457.
Gregory, J. C., XVI, 504; XVII, 581; XVIII, 92.
Gregory, J. W., XVIII, 471, 503, 515.
Gregory, W. K., XVI, 555; XVIII, 368.
Greig, J. Y. T., XVIII, 470.
Grenier, A., XVII, 596.
Gresham, T., XVIII, 108.
Gressmann, H., XVI, 517; XVII, 542.
Greve, E., XVII, 495.
Greve, H. C., XVI, 567.
Griaule, M., XVII, 609.
Griesbach, H., XVI, 567.
Griess, P., XVI, 552.
Griffith, F. L., XVIII, 11.
Grillot de Givry, E. A., XVIII, 514.
Grischow, A. N., XVII, 136 f.
Griscom, J., XVII, 522.
Grön, K., XVII, 613.
Groethuysen, B., XVII, 496.
Gronau, K., XVII, 471.
Groos, K., XVI, 556.
Groslier, G., XVII, 551.
Gross, S. W., XVIII, 409.
Grosseteste, R., XVII, 214, 263; XVIII, 24.
Grotius, H., XVII, 507.
Grousset, R., XVI, 480, 530; XVII 559.
Grozieux de Laguerenne, J., XVII, 509.
Grubb, H., XVIII, 474.
Grün, R., XVIII, 397.
Grünwald, M., XVII, 565.
Gruner, C. G., XVIII, 357.
Gsell, S., XVII, 592.
Gualino, L., XVII, 609.
Guazzo, F. M., XVI, 563.
Gudger, E. W., XVI, 495, 555; XVII, 586.
Günsburg, F., XVIII, 414.
Güntert, H., XVIII, 393.
Günther, G., XVII, 615.
Günther, H. F. K., XVIII, 510.
Günther, S., XVIII, 152, 161.
Guéricke, O. van, XVIII, 352.
Guerra, G. del., XVIII, 455, 457.
Guest, A. R., XVI, 482.
Güterbock, F., XVIII, 453.
Guha, B. S., XVIII, 488.
Guiart, J., XVII, 505.
Guiges, P., XVII, 438.
Guillaume, A., XVII, 485, 564.
Guillaume, M., XVII, 81.
Guillaume IX d'Aquitaine, XVII, 431.
Guillaume de Conches, XVII, 486.

Guillaume de Moerbeke, XVI, 523; XVII, 52.
Guillelmus, A., XVII, 251 f.
Guillemin, E. A., XVIII, 118-27.
Guinand, P. L., XVI, 505.
Guinet, L , XVI, 448, 546; XVII, 431-33, 501, 576, 578, 584, 587, 595, 602; XVIII, 337, 350, 358, 363, 365, 366, 369, 370, 371 377, 382, 392, 393, 395, 405, 408, 415, 464.
Gundert, W., XVII, 563.
Gundlach, F., XVII, 617.
Gunn, B., XVIII, 7 ff.
Gunn, J. A., XVI, 549.
Gunther, R. T., XVI, 193, 488, 498, 545; XVII, 507.
Gurhauer, G. E., XVIII, 351.
Gusmundsson, V., XVI, 178.
Gutenberg, J., XVIII, 345.
Guthrie, S., XVIII, 359.
Gutmann, M. XVIII, 441.
Guye, C. E., XVIII, 360.
Guyénot, E., XVI, 555; XVII, 584.
Gwynn, S. L., XVIII, 372.

H

Haacke, W., XVI, 330.
Haas, G. C. O., XVII, 554.
al-Ḥabbāk, XVIII, 175.
Haberling, W., XVI, 490, 544, 567.
Hackh, I. W. D., XVIII, 397.
Hackin, J., XVII, 553.
Hackmann, H., XVII, 606.
Hadding, A., XVIII, 509.
Hadley, J., XVII, 138, 167.
Hadrien, XVII, 266.
Haebler, K., XVIII, 345, 347.
Haeckel, E., XVI, 326.
Häfliger, J. A., XVIII, 419.
Haeser, H., XVIII, 353, 384, 409, 414.
Hagen, H. A., XVI, 170.
Hagen, H. F., XVIII, 503.
Hagen, J. G., XVIII, 371.
Haggard, H. W., XVIII, 523.
Hahn, E., XVI, 177.
Hahn, M., XVI, 523.
Hahnemann, S., XVII, 517.
Hairs, E. de, XVII, 498.
Haiṭam, ibn, XVII, 50; XVIII, 171.
Ḥājjī Khalīfa, XVIII, 166.
al-Ḥakam II, XVII, 245.
Hakewill, G., XVII, 97.
Hakluyt, R., XVIII, 346 f.
Halbertsma, H., XVIII, 355.
Halbwachs, M., XVII, 540.
Haldane, J. S., XVII, 277, 584; XVIII, 402.
Haldin-Davis, XVIII, 357.
Halecki, O., XVII, 489.
Hales S., XVI, 502.
Halévy, D., XVIII, 365.
Halévy, E., XVI, 503.
Hale-White, W., XVII, 172, 203.
Hall, H. R., XVI, 515; XVIII, 379, 380.
Halldór, H., XVI, 557.
Haller, A. v., XVI, 316 ff., 501; XVIII, 355.
Halley, E., XVI, 233 ff.; XVII, 130 ff., 509; XVIII, 464.
Hallier-Schleiden, H., XVIII, 523.
Halliwell, J. O., XVIII, 127-32, 290.
Halliwell-Phillips, J. O., XVII, 98, 126.
Hallo, R., XVII, 579.
Halsted, G. B., XVII, 396, 400.
Halsted, W. S., XVI, 146-48; XVIII, 374, 476.

Haly Super Tegni, *see* 'Alī ibn Riḍwān.
Hamacher, J., XVII, 580.
al-Hamadhāni, XVI, 485.
Ḥamdūn al-Abbār, XVIII, 180.
Hamer, P. M., XVII, 609.
Hamer, W., XVII, 613; XVIII, 415.
Hamey, B., XVIII, 462.
Hamilton, A., XVI, 275, 289, 300.
Hamilton, J. G. de Roulhac, XVII, 582.
Hamilton, T., XVII, 160.
Hamilton, W. R., XVII, 154-70, 520.
Hammer, J., XVI, 485.
Hammermann, A., XVII, 549.
Hammond, G. P., XVII, 499, 502.
Hampe, T., XVI, 178; XVIII, 515.
Hanbury, D., XVII, 437; XVIII, 58.
Hanckewitz, XVI, 499.
Han-fei-tzŭ, XVII, 558; XVIII, 221.
Hanif, M., XVII, 551.
Hannack, G., XVI, 536.
Hansen, A., XVII, 613.
Hapgood, H. R., XVIII, 480.
Ḥap-zefi, XVIII, 7.
Hardie, R. P., XVIII, 443.
Hardy, T. D., XVI, 197.
Hare, R., XVIII, 501.
Hargrave, C. P., XVIII, 420.
Harless, F. R., XVIII, 419.
Harless, J. C. F., XVIII, 377.
Harnack, A. v., XVI, 497; XVIII, 371, 530.
Harold, XVI, 197.
Harper, H., XVIII, 399.
Harpestraeng, H., XVII, 437.
Harriot, T., XVII, 98 f., 193, 405.
Harris, XVII, 139.
Harris, S., XVII, 504.
Harrison, XVI, 302 f.
Harrison, H. S., XVI, 562.
Harrison, J., XVII, 141.
Hartley, H., XVI, 507.
Hartlib, S., XVIII, 84.
Hartlieb, J., XVII, 486.
Hartog, P., XVIII, 356.
Hartoys, F., XVIII, 157.
Hartsoeker, N., XVII, 433.
Hārūn al-Rashīd, XVI, 9.
Hārūn al-Wāthiq, XVI, 9.
Harvey, G., XVII, 109, 115, 121.
Harvey, R., XVII, 110.
Harvey, S. S., XVIII, 363.
Harvey, W., XVI, 316, 496; XVII, 171-208, 278, 318 ff., 505; XVIII, 80, 339, 351, 417.
Harvey-Gibson, R. J., XVIII, 391.
Ḥasan b. abī Ja'far Aḥm. b. Yūsuf b. Nāṣir, abū-l-, XVIII, 172.
Ḥasan b. 'Alī b. 'Umar, XVII, 248 ff.
Haskins, C. H., XVI, 193, 200, 523; XVII, 262; XVIII, 14 ff.
Hasskarl, XVIII, 369.
Hassler, F., XVI, 507; XVII, 404.
Hast, T. H., XVIII, 367.
Hatefield, E. J., XVII, 585.
al-Ḫaṭīb Lisān ad-Dīn, ibn, XVII, 490.
al-Ḫaṭīb Muḥ. ad-Dīn, XVII, 490.
Hatschepsut, XVI, 93.
Hauer, J. W., XVI, 483.
Hauser, F., XVII, 279.
Hautecœur, L., XVIII, 491.
el-Hawary, H. M., XVIII, 449.
Haworth, P., XVIII, 298.
Hayashi, T., XVIII, 489.
Hayton, XVI, 574.
Ḥazm, ibn, XVII, 430-31; XVIII, 451.
Heal, A., XVIII, 529.

Hearnshaw, F. J. C., XVII, 512, 616.
Heath, T. L., XVI, 450-51 XVIII, 483.
Heaviside, O., XVIII, 189.
Heawood, E., XVII, 495; XVIII, 348.
Hecht, H., XVII, 502.
Hedin, S., XVII, 549; XVIII, 485, 486.
Hée, L. van, XVIII, 388.
Hegel, G. W. F., XVII, 524; XVIII, 471.
Heiberg, J. L., XVI, 546; XVII, 56; XVIII, 494.
Heidel, W. A., XVII, 209.
Heimberger, H., XVII, 544.
Heis, E., XVII, 526.
Heischkel, E., XVIII, 355.
Heisenberg, W., XVII, 277.
Heisterbach, C. v., XVII, 486.
Helbronner, P., XVI, 557; XVII, 507, 588, 590; XVIII, 462.
Held, W., XVII, 609.
Helfft, XVIII, 415.
Hellman, C. D., XVI, 236, 266-314, 448-49, 501; XVII, 127-53, 209, 510; XVIII, 354, 363, 467.
Helmholtz, H. v., XVIII, 189.
Helmholtz, R. v., XVII, 583.
Helvetius, J. L., XVII, 408-11.
Hempl, G., XVII, 533.
Hempler, F., XVI, 562.
Henderson, J., XVI, 494.
Henderson, L. J., XVII, 274, 594.
Hendrichs, F., XVI, 507.
Hennig, R., XVII, 470, 476.
Henrich, F., XVI, 507.
Henry, J., XVIII, 470.
Henry the Navigator, XVI, 558.
Henschel, A. W. E. T., XVII, 283 f.; XVIII, 336, 339, 340, 343, 344, 345, 357, 363, 384, 389, 409, 410.
Hensel, K., XVII, 525; XVIII, 474.
Hentze, C., XVI, 534.
Heny, XVII, 7; XVIII, 7-13.
Heraclitos, XVII, 273, 471.
Henry VIII, XVIII, 457.
Herber, J., XVII, 569.
Herberstein, S., XVII, 495.
Herbert, T., XVII, 117.
Herbrand, G., XVI, 569.
Herford, T. R., XVII, 564.
Heriger of Lobbes, XVI, 412; XVII, 262.
Hering, XVII, 393.
Hering, C., XVI, 506.
Hering, C. J., XVI, 506.
Hérissay, J., XVI, 503.
Herlicius, D., XVII, 506.
Herkenne, H., XVIII, 193.
Hermann, XVI, 197.
Hermann, K. F., XVIII, 339.
Hermann the Lame, XVI, 187, 193 ff., 200-19; XVII, 225, 230 ff.; XVIII, 451.
Hermannus Contractus, *see* Hermann the Lame.
Hermannsson, H., XVI, 483.
Hero of Alexandria, XVI, 478; XVII, 52, 56 f., 68 f., 279, 281, 414, 416 ff.
Herodotos, XVIII, 400.
Herophilos, XVIII, 337.
Herringham, W., XVI, 496.
Herrmann, A., XVII, 470, 471, 476.
Herrmann, L., XVI, 479; XVIII, 444.
Hertel, J., XVII, 553.
Herting, J., XVII, 523.
Hertz, H., XVI, 456; XVIII, 367.
Hertz, R., XVIII, 521.
Hervé, G., XVI, 503, 506.

Herwegen, I., XVIII, 453.
Herzog, R., XVIII, 442.
Heseltine, G. C., XVII, 492.
Hesiodos, XVII, 469.
Hetar, XVI, 93 f.
Hettemer, M., XVIII, 453.
Heusinger, C. F., XVI, 330; XVIII, 341, 363, 384, 385, 386, 388, 389, 403, 410, 415.
Hevelius, J., XVI, 498.
Hewer, H. R., XVII, 447.
Hexter, G. J., XVIII, 530.
Heyd, W., XVIII, 57.
Heydrich, M., XVII, 599.
Heyse, E. G., XVIII, 418.
Heyser, K., XVI, 573.
Hierne, U., XVI, 446.
Higger, M., XVI, 537.
Higgins, B., XVIII, 356.
Higgins, J. T., XVI, 122.
Highmore, N., XVIII, 85.
Hilbert, D., XVIII, 392, 393.
Hildebert, XVIII, 17.
Hildebrandt, E., XVI, 489.
Hildebrandt, H., XVI, 493.
Hildegard v. Bingen, XVII, 437 f.; XVIII, 453.
Hilden, W. F. v., XVIII, 348.
Hildesheimer, E. E., XVI, 537.
Hille, E. van, XVII, 540; XVIII, 441.
Hillebrand, W. F., XVIII, 501.
Hillebrandt, A., XVII, 553.
Hillestroem, P., XVII, 513.
Himes, N. E., XVIII, 365.
Hine, M., XVIII, 354.
Hinks, A. R., XVIII, 372.
Hinton, J., XVIII, 505.
Hintze, R., XVII, 610.
Hipparchos, XVIII, 382.
Hippocrates of Chios, XVIII, 382.
Hippocrates of Cos, XVI, 471, 524; XVII, 470; XVIII, 31, 335, 336, 338, 415, 527; and passim.
Hirschberg, W., XVII, 579.
Hirschel, B., XVIII, 357.
Hirschfeld, E., XVI, 506, 510, 555.
Hirshson, G. W., XVI, 118.
Hirst, F. W., XVII, 513.
His, W., XVIII, 523.
Hispalensis, J., XVI, 414; XVII, 254.
Hitti, P. K., XVII, 484.
Hobley, C. W., XVIII, 372.
Hobson, A., XVIII, 507.
Hodgkin, T., XVI, 507.
Hodgson, E. A., XVI, 559.
Höfer, H., XVI, 505.
Höfer, F., XVIII, 297.
Höffding, H., XVII, 519.
Höfler, A., XVIII, 470.
Hölder, O., XVIII, 393.
Hoesen, H. B. van, XVIII, 444.
Hössle, F. v., XVIII, 400.
Hoeven, C. P. van der, XVII, 523.
Hoeven, J. van der, XVI, 506; XVII, 523; XVIII, 361.
Hoffmann, E., XVII, 531; XVIII, 164, 165.
Hoffmann, F., XVI, 446.
Hofmann, A. W. v., XVI, 552.
Hofmann, J. E., XVIII, 352, 393, 462.
Hogarth, D. G., XVII, 523.
Hogben, L., XVII, 584.
Hohman, E. P., XVI, 122.
Hokkel, U., XVI, 536.
Holbach, P. H. D. d', XVII, 519.
Holbwein, N., XVIII, 481.
Holcomb, R. C., XVI, 474-75, 572.
Holcombe, A. N., XVII, 559.
Holder, A., XVI, 193.
Holdsworth, W. S., XVIII, 515.
Hollard, P., XVII, 575.

Holländer, E., XVIII, 472.
Holmes, M., XVIII, 468.
Holmyard, E. J., XVII, 581; XVIII, 278, 285, 343.
Holt, A., XVII, 513.
Holtrop, L. S. A., XVIII, 363.
Homburger, O., XVIII, 453.
Home, F., XVI, 570.
Homen, XVII, 494.
Homen, L., XVII, 495.
Homeros, XVII, 469, 541; XVIII, 441.
Hondius, J., XVII, 499.
Hone, J. M., XVIII, 467.
Honigmann, E., XVI, 194, 546, 557; XVII, 246, 476.
l'Honoré, N. S. P., XVI, 557.
Hooke, R., XVI, 234 f., 241, 242, 265, 498, 499; XVII, 201, 214, 507; XVIII, 78, 85, 110.
Hoops, J., XVI, 176-78; XVIII, 516.
Hoover, C. F., XVI, 544.
Hooykaas, C., XVII, 551.
Hope, E., XVII, 194, 198, 201, 404.
Hope, R., XVII, 476.
Hoper, M. W., XVI, 530.
Hopkins, A. J., XVIII, 277.
Hopkins, M., XVI, 497.
Hopkins, R. T., XVIII, 400.
Hore, R., XVIII, 346 f.
Horn, D. W., XVII, 399.
Hornaday, W. T., XVII, 446.
Horner, W. G., XVII, 395.
Hornsby, T., XVI, 236; XVII, 129, 131, 133.
Horrebow, P., XVII, 334.
Horsburgh, E. M., XVII, 579.
Horsburgh, J., XVI, 390 f.
Horsfield, G., XVII, 565.
Horvat, R., XVIII, 524.
Hosea, XVII, 486.
Hosie, D. S., XVII, 559.
Houel, XVIII, 369.
Hounnou, XVII, 7 ff.
Hourticq, L., XVI, 181-84; XVIII, 517.
Houtin, A., XVIII, 521.
Houtman, C. de, XVII, 500.
Howard, C., XVIII, 113.
Howard, L. O., XVI, 179-73, 556; XVIII, 508.
Howarth, O. J. R., XVIII, 493.
Howe, E. A., XVII, 209.
Hrotsvitha, XVIII, 450, 451.
Hsia Yü, XVIII, 228.
Hsü Hsüan, XVIII, 387.
Hsü Shih, XVIII, 226.
Hsüan Tsang, XVI, 480.
Hsün-tzŭ, XVIII, 221, 443.
Hu Shih, XVII, 559.
Huai-nan-tzŭ, XVIII, 218, 227, 228, 244, 257, 278, 282.
Huan T'an, XVII, 441.
Huang-ti, XVIII, 272, 273, 274, 278, 282.
Ḥubaish, XVI, 7.
Ḥubaish ibn al-Ḥasan, XVIII, 455.
Hubbard, L. L., XVIII, 346.
Hubert, R., XVII, 519.
Hubrecht, A., XVII, 559.
Hudson, T., XVI, 239.
Hübener, G., XVII, 481.
Hübotter, F., XVI, 534.
Hügli, H., XVI, 523.
Huet, G., XVII, 599.
Hufeland, C. W., XVI, 503.
Hugh the Cantor, XVI, 198.
Hughes, D. E., XVII, 526.
Hughes, W. N., XVII, 514.
Hulme, E. M., XVI, 523.
Hulme, E. W., XVIII, 354, 356.
Human, C., XVII, 529.
Humbert, Pa., XVI, 514.

Humbert, Pī, XVII, 540; XVIII, 350, 395.
Humboldt, A. v., XVIII, 361.
Hume, D., XVIII, 358, 470.
Hume, R. E., XVII, 553.
Hume, W., XVIII, 142.
Hummel, A. W., XVI, 534.
Ḥunain ibn Isḥāq, XVI, 7, 10, 12, 14; XVIII, 445.
Hund, R., XVIII, 523.
Hunter, J., XVI, 472, 503; XVIII, 525.
Hunter, R. H., XVIII, 405.
Hunter, W., XVII, 516; XVIII, 417.
Hunter, W. S., XVIII, 511.
Huntington, H. E., XVII, 618.
Hurd, C. B., XVII, 581.
Hurd-Mead, K. C., XVI, 484; XVII, 544.
Hurry, J. B., XVII, 586.
Husain, M. H., XVII, 571.
Husain, Y., XVII, 554.
Husman, XVIII, 404.
Husung, M. J., XVIII, 530.
Hutten, K., XVII, 554.
Hutton, C., XVIII, 349.
Huxley, J. S., XVII, 585; XVIII, 495.
Huygens, Ch., XVI, 499; XVII, 155, 162, 405, 443; XVIII, 164.
Huygens, Co., XVII, 179.
Hyma, A., XVIII, 458.
Hypsikles, XVI, 518.

I

Iamblichos, XVII, 401.
Ibberson, D., XVII, 602.
Ibn, *see* next word of name.
Ibrāhīm b. Abī Bakr b. 'Abdallāh b. Mūsā al-Anṣārī al-Tilimsānī, XVIII, 178.
Ibrāhīm al-Musta'īn, XVIII, 172.
Ibrāhīm b. Sa'id al-Sahlī, XVII, 258.
Icco of Tarente, XVII, 471.
I-ching, XVI, 480.
Ide, Y., XVII, 391.
Ideler, J. L., XVIII, 382.
al-Ifrānī, XVIII, 170.
Ijzerman, J. W., XVII, 500.
Ikeda, S., XVI, 536.
Ilberg, J., XVII, 476.
Illingworth, K., XVII, 525.
Imād-ul-Dīn... b. Maḥ-ul-Ṭabīb, XVIII, 414.
Imhotep, XVI, 516; XVIII, 480.
Immo, XVI, 193.
Imms, A. D., XVII, 584; XVIII, 506.
Ingenhousz, J., XVIII, 402.
Ingrassia, G. F., XVIII, 466.
Inlow, W. D., XVII, 523.
Innes, K. E., XVI, 534.
Innis, H. A., XVII, 587.
Irissou, L., XVII, 615.
Irsay, S. d', XVI, 479, 501, 502, 560; XVII, 476; XVIII, 355.
Isaac ben Moses, XVII, 58.
'Īsā ibn Yaḥyā, XVI, 7.
Isaac, F., XVII, 497.
Isaac Israeli the Elder, *see* Isḥaq al-Isrā'īlī.
Isaacs, N., XVII, 564.
Isachsen, G., XVIII, 509.
Isensee, E., XVIII, 410.
Isfandiyār, ibn, XVI, 9, 10, 13.
Isḥaq ibn Ḥunain, XVI, 7; XVIII, 448.
Isḥaq ibn al-Hsauyn, XVII, 481.
Isḥaq al-Isra'īlī, XVIII, 31.
Isḥaq b. Soleimān, XVIII, 341.

Isidorus of Seville (Hispalensis), XVII, 479; XVIII, 341, 449.
Ismail, I., XVII, 551.
Israëls, A. H., XVIII, 388.
Issa Bey, A., XVII, 586; XVIII, 491.
Ivens, W. G., XVII, 599.
Ivéry, A. d', XVII, 575.
Izard, R., XVI, 298, 300.

J

Jābir ibn Ḥayān, XVI, 431, 552; XVII, 481; XVIII, 271, 278.
Jablonski, W., XVI, 519.
Jack, J. W., XVII, 566.
Jackman, XVIII, 347.
Jacks, L. V., XVIII, 442, 463.
Jackson, H., XVIII, 420.
Jackson, L. L., XVII, 393.
Jacob, B., XVII, 566.
Jacob of Edessa, XVII, 481.
Jacob b. Maḥir i. Tibbon, XVII, 220, 251 ff.
Jacobi, H., XVI, 532; XVII, 553.
Jacobi, W. M., XVII, 523.
Jacobus Angelus, XVII, 52.
Jacoby, F., XVII, 540.
Jacome of Majorca, XVII, 490.
al-Jādarī, XVIII, 175, 178, 179, 180, 181, 183.
Jähns, M., XVII, 41.
Jäschke, H. A., XVII, 549.
Jaffé, A., XVII, 583.
al-Jaghmīnī, XVIII, 173.
al-Jāḥiz, XVI, 481; XVII, 280.
Jahn, F., XVIII, 415.
Jain, B. D., XVII, 553.
Jamāl al-dīn al-Māridīnī, XVIII, 173.
James of Cremona, XVI, 447.
James, M. R., XVI, 486.
James, T., XVI, 495.
James, T. E., XVIII, 360.
Janāh, ibn, XVI, 483.
Jane, C., XVII, 492, 515.
Janentzky, C., XVII, 519.
Janet, P., XVIII, 405, 511.
Jankélévitch, V., XVIII, 375.
Jansen, X., XVI, 503.
Januen, S., XVII, 438.
Jarrett-Bell, C. D., XVII, 534.
Jaschnoff, P., XVII, 503.
Jason of Cyrene, XVI, 478.
Jastrow, J., XVIII, 405.
Jatib, ibn, XVII, 489.
al-Jazari, XVIII, 343.
Jazla, ibn, XVIII, 342.
al-Jazzār, ibn, XVII, 483.
Jeannet, A., XVII, 527.
Jeans, J., XVI, 547; XVII, 579, 607; XVIII, 395, 498.
Jeanselme, E., XVII, 544-45, 613; XVIII, 523 f.
Jefferson, T., XVI, 266-314, 449 f.; XVII, 214, 518; XVIII, 467.
Jehuda ibn Tibbon, XVI, 483.
Jelks, E., XVIII, 360.
Jelles, J., XVII, 410.
Jenkins, J. T., XVI, 122.
Jenkins, R., XVII, 509; XVIII, 352.
Jenkinson, A. J., XVIII, 443.
Jenner, E., XVI, 473; XVII, 214, 435 f., 515, 517; XVIII, 363, 468.
Jennings, H. S., XVII, 584.
Jensen, D. W., XVII, 594.
Jensen, P., XVI, 538.
Jentill, E., XVII, 118.
Jéquier, G., XVII, 534.
Jeremiah, XVII, 470.
Jeremias, A., XVIII, 513.
Jerphanion, G. de, XVI, 528, 561; XVII, 579.
Jerwis, W. W., XII, 583.

Jespersen, O., XVIII, 518.
Jessop, J. C., XVII, 617.
Jesus, XVII, 475; XVIII, 338, 444.
al-Jildakī, XVIII, 343.
Jinabhadra Gaṇi, XVI, 531.
Joachim of Floris, XVII, 485; XVIII, 343.
Joao III (King of Portugal), XVII, 497.
Joerg, W. L. G., XVI, 380.
Johannes Afflacius Saracenus, XVII, 483; XVIII, 452.
Johannes de Cuba, XVIII, 346.
John, the Apostle, XVII, 474.
John of Brixia, XVII, 252 f.
John of Glogow, XVI, 137.
John of Gorze, XVI, 190; XVII, 262 f.
John of Hanville, XVIII, 17.
John of Merlai, XVIII, 22.
John V Paleologue, XVII, 489.
John of Salisbury, XVIII, 17.
John of Seville, *see* Hispalensis, J.
Johnson, A. C., XVIII, 444.
Johnson, E. H., XVIII, 197 ff.
Johnson, O. S., XVII, 440; XVIII 223, 224.
Johnson, W., XVII, 515; XVIII, 468.
Johnston, E. H., XVII, 476.
Johnston, E. S., XVIII, 507.
Johnston, G. A., XVII, 512.
Jolivet, R., XVII, 471.
Jolly, J., XVI, 532.
Jones, E. J., XVII, 617.
Jones, H. S., XVI, 519.
Jones, P. F., XVI, 480.
Jones, S. J., XVII, 583.
Jones, T. W., XVIII, 397.
Jones, W., XVI, 533.
Jonson, B., XVII, 114, 117.
Jonston, J., XVI, 496; XVII, 506.
Joos, G., XVII, 526.
Jorach, XVII, 546.
Jordan, A., XVIII, 206.
Jorden, XVIII, 404.
Jorga, N., XVIII, 509.
Joseph b. Meīr b. Zabara, XVII, 486.
Joseph, G., XVIII, 410.
Joseph, L., XVI, 538.
Josephus, F., XVI, 478; XVII, 474, 475; XVIII, 338.
Josselin de Jong, R. de, XVI, 508.
Jost, L., XVII, 527, 586.
Jouannyn, J., XVII, 508.
Joule, J. P., XVIII, 475.
Joyet-Lavergne, P., XVIII, 372.
Juan de la Cruz, St, XVII, 272.
Judah of Barcelona, XVI, 397, 423.
Judah ben Moses ha-Kohen, XVI, 486.
Jüngken, J. C., XVIII, 472.
Jugie, M., XVII, 492.
Julian the Apostate, XVII, 477.
Julian, C., XVII, 603.
Julin, C., XVIII, 373.
Jung, P., XVIII, 528.
Junge, G., XVI, 132-36; XVII, 472; XVIII, 445.
Jungius, J., XVI, 438; XVIII, 351.
Jungmann, C., v., XVII, 506.
Junk, V., XVIII, 493.
al-Jurjānī, XVIII, 174.
Justus, L., XVIII, 472.

K

Kahle, P., XVI, 537; XVII, 569.
Kahrstedt, U., XVI, 519.
Kaiser, A., XVII, 566.
al-Kāmil, XVIII, 343.
Kamil Ayad, M., XVII, 488.
Kammerer, A., XVII, 265-67.

Kanitz, P. F., XVII, 530.
Kannabich, J. W., XVI, 570.
Kanner, L., XVIII, 405, 406.
Kanokogi, K., XVII, 563.
Kant, I., XVI, 226; XVII, 518, 574.
Kantorowicz, E., XVII, 474.
Kao-ti, XVIII, 227.
Karandikar, S. V., XVI, 532.
al-Karkhi, XVII, 66.
Karpinski, L. C., XVII, 395, 397, 404, 590.
Karst, J., XVII, 548.
Karsten, G., XVI, 145.
Kastner, K. W. G., XVI, 544.
al-Kāthī, XVI, 483.
Kauders, H., XVII, 495.
Kaufmann, F., XVI, 547.
Kausch, F., XVII, 610.
Kautilya, XVIII, 435.
Kaye, G. R., XVII, 25, 26, 28.
Kees, H., XVI, 514.
Keill, J., XVI, 233.
Keimer, L., XVIII, 378, 481.
Keith, A., XVI, 570; XVII, 594; XVIII, 510, 516.
Kekulé, F. A., XVI, 507, 552.
Keller, C., XVIII, 477.
Kelley, T. L., XVIII, 511.
Kelly, E., XVII, 113.
Kelsey, F. W., XVI, 479.
Kelsey, H., XVIII, 352.
Kelvin, lord, XVIII, 366.
Kemble, J., XVIII, 456.
Kemp, XVI, 385.
Kempf, J., XVIII, 524.
Ḳen-Amūn, XVIII, 480.
Kendall, J., XVIII, 398.
Kendall, P. M., XVI, 121.
Kendrew, W. G., XVI, 534.
Kennedy, J., XVII, 525.
Kennelly, A. E., XVIII, 189, 360.
Kepler, J., XVI, 494, 495, 546; XVII, 171-208, 344, 400, 406, 407, 503, 504; XVIII, 197-200, 350, 395, 460.
Kerbosch, M., XVIII, 369.
Kern, O., XVI, 145.
Kerner, J., XVIII, 476.
Keussen, H., XVIII, 529 f.
Keyser, C. J., XVI, 451-55; XVIII, 493.
Khaldūn, ibn, XVII, 488; XVIII, 345.
al-Khaṣīb al-Kūfī, ibn, XVIII, 170.
al-Khatib, ibn, XVIII, 195.
Ḳhātimah, ibn, XVIII, 195.
Khayyam, 'Omar, XVII, 483, 484.
Khiti, XVI, 94; XVII, 7 ff.
al-Khwārizmī, XVI, 404 ff.; XVII, 250, 253; XVIII, 153, 161.
Kidd, B. J., XVIII, 521.
Kidder, A., V., XVII, 209.
Kidinnu, XVII, 333.
Kiefer, G. L., XVIII, 408.
Kielmeyer, K. F., v., XVI, 326; XVIII, 471.
Kierkegaard, S. A., XVIII, 366.
Kiesow, F., XVIII, 405.
al-Ḳifṭi, ibn, XVII, 483.
Kilényi, B. O., XVII, 579.
Kindersley, J. M., XVII, 562, 563.
al Kindī, XVII, 46; XVIII, 43.
Kipling, R., XVIII, 368.
Kircher, A., XVII, 281, 419; XVIII, 351.
Kirchhoff, G. R., XVI, 429; XVIII, 187.
Kirfel, W., XVI, 532.
Kissel, C., XVIII, 353, 354, 383.
Kitasato, S., XVIII, 369.
Klaauw, C. J. van der, XVIII, 361.
Klaproth, J., XVI, 552.
Klatzkin, J., XVII, 566.

Klausner, J., XVIII, 444.
Klebs, A. C., XVIII, 457.
Kleij, J. J. van der, XVI, 500.
Klein, F., XVI, 547 f.
Kleinman, M., XVI, 538.
Kleppisch, E., XVII, 535.
Klether, B., XVII, 576.
Klinckowstroem, K. v., XVII, 453, 602; XVIII, 503.
Klingenheben, A., XVII, 569.
Klingmüller, V., XVII, 613.
Klockart, J. H. S., XVII, 470.
Klose, C. W., XVIII, 339.
Kloss, G., XVIII, 346.
Klotz, A., XVII, 473.
Klüber, H. v., XVI, 551.
Klüvel, H., XVI, 573.
Knight, J., XVIII, 362.
Knockers, J., XVII, 523.
Knorr, L., XVIII, 501.
Knowles, G. W., XVIII, 521.
Knowlson, T. S., XVI, 563.
Knut the Great, XVI, 189, 197.
Ko Hsüan, XVII, 442.
Ko Hung, XVII, 441 f.
Kober, G. M., XVIII, 370.
Koch, Ri., XVI, 491.
Koch, Ro., XVI, 473, XVII, 610; XVIII, 370.
Kocher, T., XVIII, 370.
Koebele, A., XVII, 449.
Köditz, E., XVIII, 503.
Köhler, A., XVI, 554.
Köhler, W., XVIII, 511.
Körbler, J., XVIII, 524.
Körner, O., XVI, 477; XVII, 469; XVIII, 506.
Koets, P. J., XVIII, 407.
Koffka, K., XVIII, 511.
Kofoid, C. A., XVI, 146-48, 157-58, 463-65, 471-75, 509; XVII, 282-83, 435, 446-50, 562, 584, 587, 614; XVIII, 200-03, 206-08, 401 ff., 494, 505-07, and passim.
Kolbe, A. W. H., XVI, 552.
Kohlrausch, R., XVIII, 187.
Konow, S., XVII, 554.
Konstantinowa, A., XVI, 485.
Koopman, J., XVII, 594; XVIII, 371.
Kopf, A., XVII, 503.
Kopp, H., XVI, 439; XVII, 409, 581; XVIII, 297.
Kornilov, K. N., XVIII, 511.
Kortum, K. A., XVIII, 358.
Koschaker, P., XVI, 517.
Kostychev, S., XVIII, 402.
Kowalewski, G., XVI, 548.
Koyré, A., XVII, 506.
Kraemer, H., XVI, 556.
Krafften, A. F., XVI, 170.
Kraglievich, L., XVIII, 471.
Kraitchik, M., XVII, 576.
Krappe, A. H., XVIII, 407.
Kraus, P., XVII, 481.
Kraus, S., XVIII, 490.
Krauss, W., XVI, 523.
Krausse, F. E. A., XVII, 606.
Kremers, E., XVIII, 58, 469, 528.
Kretschmer, E., XVIII, 405.
Kretschmer, K., XVII, 545.
Kretschmer, P., XVII, 547.
Krishnaswami, G. V., XVI, 532.
Kristensen, M., XVII, 436.
Kronecker, L., XVII, 525; XVIII, 474.
Kruif, P. de, XVI, 567.
Krull, W., XVI, 548.
Krumbhaar, E. B., XVIII, 356, 473.
Krumm, J. W., XVIII, 469.
Kuang-ch'eng-tzŭ, XVIII, 272.
Kühl, W., XVII, 457.
Kühn, H., XVI, 563.
Künssberg, E. v., XVIII, 516.

Küpfer, M., XVIII, 477.
Kürten, H., XVII, 492.
Kuhnert, E., XVIII, 530.
Kulmus, J. A., XVIII, 418.
Kung-Sung, Y., XVIII, 442.
Kunz-Krause, H., XVIII, 529.
Kurth, G., XVI, 190.
Kushner, M. D., XVI, 506.
Kussmaul, A., XVII, 528.
Kyrannides, XVIII, 398.

L

La Caille, N. de, XVI, 279; XVII, 137.
Lacau, P., XVI, 93, 108; XVII, 7.
Lachs, G., XVII, 617.
Lachtin, M. J., XVIII, 478.
Laënnec, R. T. H., XVII, 524, 610.
Lagrange, E., XVIII, 366.
Lagrange, J. L., XVI, 502.
La Hire, P. de, XVIII, 158.
Laignel-Lavastine, M., XVII, 613.
Laïmèche, A., XVIII, 453.
Laisant, C. A., XVII, 392.
Laistner, M. L. W., XVIII, 484.
Lalande, A., XVI, 548; XVIII, 394.
Lalande, J. J., XVII, 140.
Lamarck, J. B., XVI, 157 f., 545; XVII, 584; XVIII, 206, 468, 472.
Lamb, H., XVII, 570.
Lambert, S. W., XVIII, 351.
Lambossy, P., XVII, 472.
La Mettrie, J. O. de, XVII, 278.
La Monte, J. L., XVI, 523.
Lancisi, J. M., XVIII, 356.
Landsberg, M., XVIII, 335, 338, 340, 377, 410, 415.
Lan-fang, M., XVII, 558.
Lane, J. E., XVIII, 370.
Lane-Poole, S., XVI, 540.
Langdon, S. H., XVI, 517; XVIII, 521.
Lange, L., XVII, 579.
Lange-Eichbaum, W., XVII, 595; XVIII, 511.
Langenbeck, B. R. K., XVIII, 472.
Langevin, P., XVIII, 392, 477.
Långfors, A., XVII, 487.
Langlet Dufresnoy, N., XVIII, 297.
Langley, T., XVII, 81.
Langmuir, I., XVIII, 499.
Lanman, C. R., XVIII, 478.
Langton, H. H., XVII, 504.
Lao-chün, XVIII, 272.
Lao-tzŭ, XVIII, 221, 226.
Laoust, E., XVII, 570.
Lapicque, L., XVIII, 392.
Laplace, P. L., XVI, 502; XVII, 400, 401, 443; XVIII, 333.
Lapparent, A. de, XVI, 559.
Larkey, G., XVIII, 339.
Larkey, S. V., XVIII, 339.
Larock, V., XVII, 469.
La Roërie, L. G., XVIII, 400.
La Roncière, C. de, XVII, 489, 591; XVIII, 458.
Larrey, D., XVIII, 409.
Larsen, H., XVII, 436-38.
La Salle, R. C. de, XVIII, 463.
Lasaulx, E. v., XVIII, 377.
Lassaly, O., XVIII, 514.
Lasteyrie, R. C. de, XVI, 523.
Latham, M. L., XVII, 403.
Latreille, P. A., XVII, 429.
Lattimore, O., XVIII, 485.
Laumann, J., XVI, 494.
Laurent, A., XVI, 504, 552.
Laurent, V., XVII, 487.
Lauro, P., XVII, 81.
Lauvernier, C., XVIII, 400.
Laux, R., XVI, 523.

La Vallée-Poussin, L. de, XVII, 557.
Lavater, J. C., XVII, 519.
Laveran, A., XVI, 473; XVII, 528; XVIII, 369, 370, 476.
Lavoisier, A. L., XVI, 82-91, 552; XVII, 400, 433, 513; XVIII, 356.
La Wall, C. H., XVII, 615; XVIII, 419.
Lawrence, A. W., XVIII, 346.
Lawrence, B. I., XVI, 497.
Leahy, A. M., XVII, 594.
Leake, C. D., XVI, 138-41, 174-76, 509, 568, 569; XVII, 505 f.; XVIII, 195-97, 364, 374, 409, 412, 417, 523; and passim.
Leake, J., XVIII, 417.
Leavenworth, I., XVII, 503.
Le Bel, J. A., XVII, 526.
Lebenheim, E. L. H., XVIII, 363.
Leber, F. v., XVII, 610.
Leblanc, L., XVII, 613.
Leblanc, N., XVI, 552.
Le Bon, G., XVIII, 516.
Le Chatelier, H., XVIII, 476.
Leclerc, H., XVII, 616.
Leclerc, L., XVIII, 167.
Le Conte, J. L., XVI, 146.
Le Coq, A. v., XVI, 511.
Ledger, C., XVIII, 369.
Ledyard, J., XVII, 514; XVIII, 357.
Lee, C., XVI, 304.
Lee, R. W., XVII, 507.
Leersum, E. C. van, XVII, 263; XVIII, 353.
Leeuwenhoek, A. van, XVI, 316 f.; XVII, 263; XVIII, 352, 463.
Le Fanu, W. R., XVIII, 457.
Lefort, L. T., XVIII, 481.
Legendre, A. F., XVI, 502, 504.
Legiardi-Laura, C., XVIII, 477.
Legrain, L., XVI, 517
Lehmann, F. R., XVII, 600.
Lehmann, H., XVII, 483.
Lehmann, W. C., XVII, 519.
Lehmann-Haupt, C. F., XVII, 542.
Lehmann-Nitsche, R., XVII, 580.
Leibniz, G. W., XVI, 497, 568; XVII, 393, 397, 403, 508; XVIII, 350, 352, 354.
Leidinger, G., XVII, 42.
Leidy, J., XVI, 145, 545.
Leigh, XVI, 445.
Leishman, XVI, 473.
Leite, D., XVII, 495.
Leith, C. K., XVII, 593.
Lejeune, F., XVII, 600; XVIII, 466.
Lémery, N., XVI, 428, 441; XVII, 433.
Le Monnier, P. C., XVII, 141 f.
Lenard, P., XVI, 545; XVIII, 493.
Lenghel, A., XVII, 511.
Lenoir, R., XVII, 524, 606.
Lennar, E. W., XVIII, 404.
Leonardo Pisano, XVI, 420; XVII, 57, 60, 66; XVIII, 454.
Lentilius, XVI, 445.
Lenz, M., XVI, 497.
Lenzen, V. F., XVII, 288-89.
Leofric, XVI, 197.
Leon, M., XVII, 545.
Leon, P., XVII, 545.
Leonardo da Vinci, XVI, 489-90, 546; XVII, 493.
Leonelli, Z., XVIII, 358.
Leonicenus, XVIII, 347.
Leonicerus, A., XVIII, 349.
Leriche, M., XVIII, 372.
Leroy, A., XVIII, 358.
Le Roy, E., XVIII, 393.
Lesage, G. L., XVI, 158 ff.
Leslie, R., XVI, 290 f.

Lethaby, W. R., XVII, 473.
Le Strange, G., XVIII, 491.
Letronne, J. A., XVI, 93.
Letts, M., XVIII, 515.
Leubuscher, R., XVIII, 416.
Leverrier, U. J. J., XVII, 156.
Levi, A., XVII, 470.
Levi ben Gerson, XVII, 59 ff.
Lévi-Provençal, E., XVIII, 167 ff.
Levinson, H. C., XVIII, 395.
Lévy, P., XVIII, 518.
Lévy, Ra., XVIII, 518.
Levy, Re., XVII, 570.
Lévy-Bruhl, L., XVII, 450-53; XVIII, 391.
Lewin, L., XVII, 528; XVIII, 374, 529.
Lewinstein, XVII, 409.
Lewis, T., XVI, 473.
Lewis, W. H., XVIII, 528.
Lewton, F. L., XVI, 553.
Lewy, A., XVIII, 340.
Lewy, J., XVIII, 485.
Ley, W., XVI, 490.
Lhéritier, M., XVIII, 391, 516.
Li Mu, XVIII, 273.
Li Schao-chün, XVIII, 227.
Liang Chi-Chao, XVII, 559; XVIII, 216, 218, 219, 221, 222.
Liapounov, A. M., XVIII, 366
Libavius, A., XVI, 440, 552.
Libby, W., XVII, 502.
Li Chih-ch'ang, XVII, 486.
Liddel, H. G., XVI, 519.
Lidstone, G. J., XVII, 509.
Liebermann, XVI, 432.
Liebig, J. v., XVI, 430, 504, 552; XVII, 173 ff., 203; XVIII, 359, 402 f.
Liertz, R., XVII, 487.
Lietzann, H., XVII, 547.
Lietzmann, W., XVI, 548; XVII, 576, 577.
Lilius, Z., XVII, 76, 91.
Lillie, R. S., XVIII, 520.
Linacre, XVIII, 347.
Lindemann, F., XVI, 497.
Linderer, J., XVIII, 410.
Lindsay, A. D., XVII, 564.
Linné, C. v., XVI, 170, 502, 503, 555; XVII, 511; XVIII, 206.
Linon, G., XVI, 503.
Lint, J. G. de, XVI, 514; XVII, 535; XVIII, 353.
Lippmann, E. O. v., XVI, 462, 483, 487, 501, 505; XVII, 513; XVIII, 191, 356, 361, 398, 474, 511.
Lister, J., XVI, 473.
Liston, XVIII, 527.
Lithgow, W., XVI, 497.
Litten, W., XVII, 483.
Little, A. G., XVIII, 24, 26, 58.
Littré, E., XVI, 510; XVIII, 335, 344, 369, 370.
Littrow, J. J. v., XVIII, 471.
Liu An, XVIII, 227, 228, 230.
Liu Hsiang, XVIII, 221.
Liudprand of Cremona, XVII, 263; XVIII, 451.
Livingston, W., XVI, 273.
Livingstone, D., XVIII, 367.
Livingstone, W. P., XVIII, 367.
Lloyd, J. E., XVI, 524.
Lloyd, H., XVII, 154-70 (portr.).
Llubera, I. G., XVII, 486.
Lo Bianco, V., XVIII, 473.
Locke, J., XVI, 574; XVIII, 354, 439, 519.
Locke, J. C., XVIII, 514.
Locke, L. L., XVIII, 475.
Lodge, O., XVIII, 198, 494.
Lodge, R. C., XVIII, 442.

Lods, A., XVII, 566; XVIII, 388.
Loeb, J., XVI, 571.
Löffler, K., XVIII, 530.
Lösch, S., XVII, 474.
Löw, I., XVII, 566.
Löwenstein, J. S., XVIII, 411.
Loewy, A., XVII, 566.
Lohmeyer, H., XVIII, 384.
Loffin, D. O., XVII, 487.
Lombard, F. A., XVI, 536.
Lombroso, C., XVIII, 477.
Lommel, H., XVII, 568.
Lomnius, J., XVI, 493.
Lomonosov, M. V., XVIII, 465.
Lones, T. E., XVIII, 36.
Long, C. W., XVIII, 409.
Long, E. R., XVII, 260.
Longman, L. D., XVI, 480.
Longnon, J., XVI, 524.
Longomontanus, XVII, 101.
Loomis, L. R., XVIII, 511.
Lorentz, H. A., XVI, 159 f.; XVII, 525.
Lorenz, R., XVIII, 398.
Lorey, W., XVI, 145.
Loria, G., XVII, 179, 395, 406, 502, 577; XVIII, 156, 496.
Lot, F., XVII, 545; XVIII, 446.
Loth, E., XVIII, 418.
Loudon, W. J., XVIII, 367.
Louis XVI, XVIII, 469.
Loukianos of Samosata, XVIII, 339.
Louter, J. de, XVII, 512.
Louvet, P., XVII, 494.
Lovejoy, A. O., XVII, 574.
Lowe, E. A., XVI, 524.
Lowell, P. K., XVIII, 411.
Lower, R., XVIII, 463.
Lower, W., XVII, 98 f.
Lowery, H., XVIII, 475.
Lowitz, J. T., XVIII, 468.
Lu Shêng, XVIII, 226.
Lucas, A., XVII, 535.
Luccarelli, V., XVII, 471.
Lucretius, XVI, 428; XVII, 278, 420.
Ludendorff, H., XVI, 562; XVII, 580; XVIII, 498.
Ludlam, W., XVII, 128 f., 142 ff.
Ludwig, E., XVII, 529.
Lü Pu-wei, XVIII, 217.
Lübke, A., XVII, 559.
Lüdemann, K., XVIII, 504.
Lümmel, R., XVI, 494.
Luitprand, *see* Liudprand.
Lull, Rámon, XVI, 434, 552.
Lulofs, H. J., XVI, 477; XVII, 471, 473.
Lunge, G., XVI, 552.
Lupacchini, XVIII, 337.
Luquet, G. H., XVI, 562.
Lusk, G., XVIII, 476.
Luther, M., XVI, 524; XVII, 105.
Lutz, H. F., XVIII, 378.
Lydyat, T., XVII, 99 f.
Lyman, E., XVIII, 404.
Lyman, G. D., XVII, 523.
Lyon, C. J., XVIII, 402.

M

Maack, R., XVI, 563.
Macartney, C. A., XVII, 481.
Macaulay, I. F. S., XVII, 577.
Macaulay, T. B., XVIII, 78.
MacBride, E. W., XVII, 447.
MacBride, J., XVIII, 136.
MacCallum, W. G., XVI, 146-48; XVIII, 374, 476.
Macclesfield, Earl of, *see* Parker, J.
Macclesfield, G., XVII, 343 ff.
Macclesfield, T., XVII, 383.
Maccoby, S., XVIII, 515.
McCroben, G., XVIII, 455.

Macculagh, J., XVII, 158.
MacCurdy, G. G., XVIII, 512.
Macdonald, D., XVI, 530.
Macdonald, D. B., XVII, 430-31, 439-40, 570.
MacDonald, T. L., XVIII, 470.
Macdonell, A. A., XVI, 532.
McDougall, W., XVIII, 405, 511.
Mace, A. C., XVII, 535.
Macer, A., XVIII, 342.
Macfarlane, A., XVII, 398.
Mach, E., XVII, 288.
Machiavelli, N., XVII, 497.
Machin, J., XVII, 340, 357.
Macht, D. I., XVI, 555; XVII, 528; XVIII, 374.
Mack, H., XVI, 504; XVII, 391.
Mackaye, J., XVI, 158-61; XVIII, 495.
Mackenzie, M., XVIII, 527.
McKenzie, R., XVI, 519.
McKeon, R., XVI, 500.
MacKinney, L. C., XVI, 191, 483.
Maclean, J., XVIII, 187, 501.
Macler, F., XVI, 482.
Maclure, W., XVI, 146.
McMaster, J. B., XVI, 274.
MacMichael, W., XVI, 568.
Macmunn, G., XVI, 530.
McMurrich, J. P., XVI, 489; XVII, 216, 493.
McNair, J. B., XVIII, 507.
MacNair, M. W., XVII, 619.
Macnaughton, D., XVIII, 380.
Macquer, P. J., XVI, 89 f., 431, 501.
Macray, G. D., XVII, 47.
Macrizi, XVIII, 345.
Macy, W. H., XVI, 122.
Mādhavakara, XVI, 12.
Madison, J., XVI, 271, 276, 288, 290.
Mästlin, M., XVII, 503.
Magellan, F., XVI, 558; XVII, 494, 495; XVIII, 348.
Magnaghi, A., XVII, 495; XVIII, 348.
Magnan, A., XVIII, 497.
Magnien, V., XVII, 469.
Magnos of Emesa, XVIII, 340.
Magnus, L., XVII, 564.
Magoffin, R. van Deman, XVII, 596; XVIII, 511.
Magrini, S., XVII, 198.
Mahāvīra, XVI, 531; XVII, 25-33, 470.
al-Mahdī, XVI, 10.
Maḥmūd of Ghazna, XVII, 482.
Mahnke, D., XVIII, 165.
Maier, H., XVI, 497.
Maier, M., XVIII, 291 ff.
Maillard, P., XVIII, 169.
Maimon, S., XVI, 220-32; XVIII, 467.
Maimonides, *see* Moses b. Maimon.
Maisin, J., XVIII, 530.
Mait, XVII, 7 ff.
Maius, T., XVIII, 418.
al-Majdī, ibn, XVIII, 175.
Major, R. H., XVII, 492, 614.
al-Majrīṭī, XVIII, 171.
Malapert, C., XVIII, 350.
Malaspina, A., XVII, 514.
Mâle, E., XVIII, 63.
Malebranche, N. de, XVII, 509.
Malfatti, Gian., XVIII, 467.
Malfatti, Giov., XVIII, 473.
Malloch, A., XVII, 466; XVIII, 416.
Malpighi, M., XVI, 316 f., 500; XVII, 291, 351.
Maltzahn, R., XVII, 602.
Malus, E. L., XVII, 154.
al-Ma'mūn, XVI, 10.

al-Ma'mūn of Tolede, XVII, 250.
Man, H., XVIII, 148.
Mandeville, J., XVIII, 132.
Manfré, P., XVIII, 411.
Manfredi, E., XVI, 234.
Manitius, M., XVI, 190.
Manly, J. M., XVII, 487.
Mannheim, A., XVII, 520.
Manning, H. P., XVI, 512.
Manningham, W., XVIII, 417.
Manse, F. V., XVIII, 356.
Manson, P., XVI, 473.
Månsson, XVIII, 404.
Manṣūr al-Kāmily, XVIII, 343.
Manzoni, A., XVIII, 473.
al-Maqqarī, XVIII, 166.
Mar Babboula, XVIII, 341.
Marcgrave, G., XVI, 495.
March, L., XVI, 549.
Marcham, F. G., XVI, 55-81; XVIII, 462.
Marchant, G., XVII, 492.
Marci, M., XVII, 325-30.
Marcombes, XVIII, 83 f.
Marconi, E., XVIII, 406.
Marcy, G., XVIII, 406.
Marett, R. R., XVII, 600.
Margaret, of Newcastle, XVIII, 102, 104.
Margerie, E. de, XVI, 559; XVIII, 475.
Marggraff, A. S., XVI, 552.
al-Marghīthī, XVIII, 181.
Marguerite, H., XVII, 471.
al-Māridīnī, XVI, 402 ff.; XVIII, 174, 176, 177, 179, 183.
Marinos of Neapolis, XVIII, 446.
Marinos of Thyr, XVII, 476.
Marinus, A., XVII, 600; XVIII, 513.
Marion de Fresne, XVII, 515.
Maritain, J., XVIII, 446.
Markham, C., XVI, 467.
Markham, V. R., XVIII, 452.
Marmasse, A. A., XVIII, 478.
Marmer, H. A., XVI, 558.
Marmocchi, F. C., XVII, 522.
Marotte, F., XVIII, 382.
Marples, E. A., XVII, 598.
Marsh, J., XVII, 523.
Marshall, ben, XVII, 512.
Marshall, C. F., D. XVIII, 360.
Marshall, Hel., XVII, 594.
Marshall, Hen., XVII, 122.
Marsigli, F., XVIII, 464.
Martin, A., XVIII, 526.
Martin, Ch., XVIII, 352.
Martin, Cl., XVIII, 526.
Martin, J. E., XVII, 515.
Martin, T., XVI, 504.
Martin, T. C., XVIII, 366.
Martin, W. A. P., XVIII, 223, 224.
Martindale, C. C., XVIII, 446.
Martonne, E. de, XVI, 510.
Maryam, Muḥ. ibn, XVIII, 169.
Matzell, H., XVII, 586; XVIII, 513.
Masani, M. R. P., XVIII, 487.
Māsarjawaih, XVI, 7, 14.
Mascagni, P., XVIII, 469.
Māshāllāh, XVI, 195, 198, 488; XVII, 245, 254 ff.
Ma'shar, abū, XVIII, 170.
Mashkarin, G., XVIII, 487.
Masīḥ ibn Ḥakam, XVI, 7.
Maskelyne, N., XVI, 237; XVII, 130, 132 ff.
Maslama, XVII, 257.
Mason, C., XVII, 127, 138.
Maspero, G., XVII, 551.
Maspero, H., XVIII, 222.
Massignon, L., XVII, 570.
Masson, F., XVIII, 100.
Masson, I., XVIII, 94, 103.

al-Mas'ūdī, XVII, 417.
Matasović, J., XVIII, 524.
Matchoss, C., XVI, 553.
Mathesius, J., XVIII, 418.
Mathieu, G., XVI, 479.
Mathieu, P., XVIII, 462.
Matignon, C., XVIII, 476.
Matsumura, M., XVII, 563.
Matthäus, K., XVII, 600.
Matthaeus Lunensis, XVII, 76.
Matthew, XVII, 393.
Matthew of Miechow, XVI, 138.
Matthew, W. D., XVIII, 368.
Mattioli, P. A., XVIII, 459.
Matzke, J. E., XVIII, 19.
Maubray, J., XVIII, 417.
Mauclaire, XVII, 517.
Maung Tin, Pe, XVIII, 487.
Maunier, R., XVIII, 365.
Maupas, F. E., XVI, 546.
Maupertuis, P. L., XVI, 236; XVII, 335, 336, 435, 509; XVIII, 438.
Maupin, XVII, 392.
Maurel, A., XVII, 512.
Maurer, F., XVI, 524; XVIII, 471.
Maurolyco, F., XVII, 394; XVIII, 457.
Mawer, A., XVI, 565.
Mawson, D., XVI, 380, 386 ff.
Maximus Planudes, XVII, 54 ff.
Maxwell, J. C., XVII, 273, 275, 276; XVIII, 185 ff., 475, 499.
Mayer, And., XVII, 523.
Mayer, Ant., XVIII, 451.
Mayer, C. F., XVI, 486, 524.
Mayer, J., XVI, 124-25; XVII, 393, 453-64.
Mayer, S., XVII, 496.
Mayer, T., XVII, 137.
Mayerne, T. de, XVI, 143.
Maynard, K., XVII, 94-126.
Maynard, T., XVI, 491.
Mayow, J., XVIII, 88 ff.
Māziyār b. Qārin, XVI, 11.
Mazzini, G., XVIII, 466
Mead, H. R., XVII, 492.
Mead, R., XVI, 568.
Mead, W. E., XVII, 545.
Meader, C. L., XVIII, 519.
Meadowcroft, W. H., XVIII, 366.
Means, P. A., XVI, 465-68, 596; XVIII, 511.
Meckel, J. F., XVI, 326.
Medina, J. T., XVII, 497.
Meester, D. P. de, XVII, 547.
Meillet, A., XVII, 541, 564; XVIII, 519.
Meinecke, F., XVI, 497.
Meinzo of Constance, XVI, 196.
Meissner, B., XVIII, 380.
Meissner, P., XVII, 528, 617
Meissner, P. E., XVII, 528.
Mejer, XVIII, 404.
Mellan, C., XVIII, 350.
Meller, E., XVI, 553.
Mello, F. de, XVIII, 524.
Melville, H., XVI, 117 f.
Mély, F. de, XVI, 524.
Menard, P., XVIII, 405.
Mencius (Meng-tzŭ), XVIII, 221.
Mencke, S., XVII, 610.
Mendel, G. J., XVIII, 206, 367.
Mendelejeff, D. I., XVI, 552.
Menetrier, M. P., XVI, 477; XVII, 481, 615.
Meng Pên, XVIII, 228.
Menghin, O., XVI, 561; XVII, 598.
Menke, F. A., XVIII, 335.
Mennher, V., XVII, 498.
Mérat, F. V., XVII, 523.
Mercator, N., XVIII, 353, 404.
Mercer, H. C., XVI, 553; XVIII, 400.

Mercuralis, H., XVII, 500.
Merian, M., XVII, 590.
Meringer, R., XVIII, 394.
Merkel, F., XVIII, 484.
Merklein, J. J., XVII, 504.
Merret, C., XVIII, 111.
Merriam, J. C., XVI, 559.
Merrill, G. P., XVIII, 477 f.
Mersenne, M., XVI, 156; XVII, 179 ff.; XVIII, 350.
Mesmer, F. A., XVII, 517, 612.
Mesnil du Buisson, du, XVIII, 512.
Messahalla, *see* Māshāllāh.
Messedaglia, L., XVII, 511.
Metz, XVIII, 416.
Metzger, H., XVII, 433-35, 444-45, 450-53, 510, 573; XVIII, 391, 398.
Meusnier, J. B. M. C., XVI, 502.
Meyer, A., XVII, 277-78; XVIII, 495, 507.
Meyer, E. H. J., XVIII, 337, 346.
Meyer, J. J , XVI, 532; XVII, 554.
Meyer, K., XVIII, 360.
Meyer, K. H., XVII, 606.
Meyer, L., XVI, 435, 508, 522.
Meyer, P., XVIII, 16.
Meyer, R., XVI, 176.
Meyer, V., XVI, 552.
Meyer, W., XVI, 571.
Meyer-Ahrens, C., XVIII, 337, 349, 419.
Meyere, V. de, XVI, 563.
Meyerhof, M., XVI, 6-54, 481, 484, 540; XVII, 481; XVIII, 378, 444, 447, 449, 450, 481.
Meyerson, E., XVII, 444-45.
Miall, S., XVII, 582.
Michael v. Breslau, XVI, 137.
Michaelis, E., XVII, 516.
Michaut, G., XVIII, 357.
Michaux-Bellaire, E., XVII, 570; XVIII, 169.
Michelet, J., XVIII, 365.
Michelet, L., XVI, 491.
Michelino, D. di, XVI, 487.
Michelson, A. A., XVIII, 187.
Michelson, A. G., XVII, 525.
Michelspacher, S., XVI, 496.
Middleton, W. S., XVI, 145, 507.
Mieli, A., XVI, 545.
Mikami, Y., XVI, 448; XVII, 264, 391.
Milhaud, G., XVII, 178, 181, 200.
Militzer, M., XVII, 499.
Milkau, F., XVIII, 530.
Mill, H. R., XVI, 380, 382, 389 ff., 505; XVII, 591.
Millàs Vallicrosa, J., XVII, 218-58, 570; XVIII, 203-04.
Miller, A. H., XVII, 513; XVIII, 357.
Miller, B., XVII, 439-40.
Miller, D. E., XVII, 525.
Miller, E. R., XVII, 593.
Miller, G. A., XVI, 517, 518, 548; XVII, 397, 535; XVIII, 496.
Miller, G. S., XVIII, 508.
Miller, J. R., XVI, 281 ff., 310 f.
Miller, O. T., XVII, 446.
Milligan, F., XVI, 508.
Millikan, R. A., XVI, 547, 553.
Milne, C. H. M., XVIII, 446.
Milne, J. G., XVII, 541.
Milne, J. J., XVII, 473.
Milton, J., XVII, 104.
Miner, J. R., XVIII, 420.
Mingana, A., XVI, 7, 10.
Minos, XVI, 511.
Mitchell, C. A., XVII, 535.
Mitchell, J. K., XVI, 509
Mitchell, M., XVI, 120.
Mitchell, S. W., XVI, 809.

Mitkewich, W. T., XVIII, 360.
Mitman, C. W., XVI, 553.
Mitscherlich, E., XVI, 552.
Mizraḥi, E., XVII, 54 ff.
al-Mizzī, XVIII, 173.
Mladenov, S., XVI, 565.
Mo-Ti, *see* Mo-Tsŭ.
Mo-Tsŭ, XVIII, 221, 441.
Mody, K. P., XVII, 27.
Moellendorf, P. G. v., XVII, 559.
Moellendorf, R. v., XVII, 559.
Moerman, H. J., XVII, 591.
Moguel, M., XVIII, 371.
Mohammed b. Abd el-Jalil, XVI, 485.
Mohr, E., XVI, 556.
Moissan, H., XVI, 546.
Moivre, A. de, XVII, 509.
Mokatsi, A., XVI, 482.
Moleyns, J., XVIII, 462.
Molière, XVI, 569.
Molières, J. P. de, XVII, 433.
Moll, F., XVI, 553, 554.
Molyneux, S., XVI, 234, 241 ff.
Momigliano, F., XVII, 36.
Mond (family), XVII, 525.
Mondino de' Liucci, XVII, 488.
Monge, G., XVI, 502.
Monroe, J., XVI, 300.
Montaigne, XVII, 501.
Montanari, G., XVIII, 352.
Montefiore, C. G., XVII, 564; XVIII, 521.
Montet, P., XVI, 515.
Montgomery, D. W., XVIII, 416.
Montmollin ,M. de, XVII, 527.
Montucla, J. E., XVI, 502.
Mony, P., XVII, 503; XVIII, 468.
Moore, F. J., XVIII, 501.
Moore, G. E., XVII, 575.
Moore, G. F., XVII, 566.
Moore, S. T., XVI, 118.
Moore, T. E. L., XVI, 385.
Moorehead, W. K., XVII, 597.
Moorman, L. J., XVIII, 466.
Moortgat, A., XVI, 529.
Moray, R., XVIII, 111, 112.
Mordell, P., XVII, 566.
More, H., XVI, 141 ff.; XVIII, 100, 463, 519.
More, P. H., XVIII, 521.
More, T., XVII, 119 f., 125, 497; XVIII, 348.
Morejon, A. H., XVIII, 411.
Moreland, W. H., XVIII, 351.
Morena, O., XVIII, 453.
Morgagni, G. B., XVII, 511; XVIII, 466, 526.
Morgan, A. de, XVII, 160, 539.
Morgan, J. P., XVI, 574.
Morgan, J. R., XVI, 499.
Morgan, L., XVI, 503
Mori, A., XVII, 591.
Morin, G., XVI, 192; XVIII, 150.
Morin, L., XVIII, 487.
Morison, S., XVIII, 529.
Morison, S. E., XVI, 122.
Morita, S., XVI, 555.
Morland, S., XVIII, 132.
Morley, E. W., XVIII, 501.
Morley, H., XVII, 496.
Morley, S. G., XVII, 525.
Morley, W. H., XVII, 229.
Mornet, D., XVII, 435 f.
Morrell, B., XVI, 385.
Morris, E., XVII, 604.
Morris, G., XVI, 267, 299.
Morris, M., XVI, 504.
Morris, R., XVI, 267 ff., 308.
Morris, R. B., XVI, 564; XVIII, 516.
Mortet, V., XVII, 545.
Morveau, G. de, XVII, 433, 514; XVIII, 191.

Moschopulos, M., XVI, 574.
Moses b. Maimon, XVI, 400 f., 423; XVIII, 447.
Mostyn, W., XVII, 513.
Mottelay, P. F., XVII, 126.
Moulay Zīdān, XVIII, 167.
Moulijn, J. A., XVII, 511.
Mourat, J., XVII, 494.
Mourraille, XVII, 395.
Mouton, G., XVI, 277.
Msahiti, XVI, 93, 97, 99; XVII, 6 ff.
Much, H., XVII, 610.
Mühlbacher, F., XVII, 610.
Mühlberger, J., XVII, 591.
Mühlestein, H., XVII, 542.
Müller, F., XVI, 326.
Müller, G., XVI, 488.
Müller, J. P., XVI, 571.
Müller, K., XVII, 541.
Müller, O., XVIII, 514.
Müller, R. F. G., XVII, 554, 555; XVIII, 487.
Müller-Freienfels, R., XVIII, 520.
Münster, S., XVIII, 353.
Münzer, XVII, 493.
Münzer, G., XVIII, 398.
Muḥ Binnīs, XVIII, 177, 183.
Muḥammad, XVIII, 449.
Muḥ. b. abi l-Fatḥ al-Ṣūfī, XVIII, 176.
Muḥ. b. Ibrāhīm ibn al-Raqqām, XVIII, 173.
Muḥ. al-Ishbīlī, XVIII, 177.
Muḥ. b. Ja'far al-Kattānī, XVIII, 170.
Muḥ. b. Jarīr aṭ-Ṭabarī, XVI, 13.
Muḥ. b. al-Qāsim al-Gharnāṭī, XVIII, 177.
Muḥ... ibn al-Ṣabbāgh al-'Uqailī, XVIII, 181.
Muḥ. ibn 'Umar al-Tūnisī, XVIII, 389.
Muir, J., XVII, 446.
Muir, M. P., XVI, 88.
Muir, T., XVI, 610.
Mukhopādhyāya, P., XVI, 12, 533.
Muller, H. F., XVI, 525.
Mumby, F. A., XVIII, 530.
Mund, W., XVIII, 502.
Munqidh, Usāmah ibn, XVII, 484.
Munk, W., XVIII, 412.
Munro, D. C., XVII, 570.
Muqri', abū, XVIII, 178.
Murchison, C., XVIII, 405, 511.
Murdoch, W., XVIII, 158.
Mure, G. R. G., XVIII, 46, 443.
Mūrisṭus, XVII, 279 ff.
Murray, D., XVII, 617.
Murray, M. A., XVI, 515; XVII, 535; XVIII, 378.
Mūsā, Banū, XVII, 279, 281.
Muschel, J., XVIII, 442.
Muscus of Constantinople, XVII, 66.
Musil, A., XVI, 541; XVIII, 389.
al-Muṭarrifī, XVIII, 179.
al-Mu'taṣim, XVI, 8, 9, 11.
al-Mutawakkil, XVI, 11.
Muthu, D. C., XVII, 555.
al-Muwaqqit, ibn, XVIII, 170.
Myres, J. L., XVIII, 510.
Mžik, H. v., XVII, 482.

N

Naber, S. P., L'H. XVII, 591.
Nadgir, Y. G., XVII, 555.
an-Nadīm, ibn, XVIII, 447 f.
Nafe, J. P., XVIII, 511.
Nafīs al-Kirmanī, XVI, 13.
Nagarjuna, XVIII, 224.
al-Nairīzī, XVIII, 171.

Najīb ad-Dīn as-Samarqandī, XVI, 13.
Nakaya, J., XVII, 563.
Nakhiti (pseudo), XVII, 7 ff.
Nallino, C. A., XVI, 10.
Namer, E., XVII, 501, 504.
Nansen, F., XVII, 530; XVIII, 373.
Napier, J., XVII, 201, 389, 397, 407, 498.
Nardi, B., XVII, 489.
Naṣīr al-Dīn al-Ṭūsī, XVIII, 172.
Natali, G., XVII, 513.
Nashe, T., XVII, 108, 110, 113, 123, 124.
Nath, P., XVIII, 386.
Natucci, A., XVIII, 470.
Nau, F., XVIII, 341, 446.
Nāẓim, M., XVII, 482.
Neckam, A., XVIII, 14 ff.
Needham, J., XVII, 277-78, 585.
Neff, J. U., XVIII, 501.
Negelein, J. v., XVII, 553; XVIII, 514.
Neile, P., XVIII, 106, 111.
Neile, R., XVIII, 106.
Neile, W., XVIII, 106.
Nelson, G. W., XVIII, 335 f.
Nelson, H., XVIII, 376.
Neophitos, XVII, 59.
Neri, A., XVIII, 111.
Nerman, B., XVII, 484.
Netto, XVII, 392.
Neuburger, A., XVIII, 377.
Neuburger, M., XVII, 610.
Neuendorff, E., XVII, 611.
Neugebauer, K., XVIII, 528.
Neugebauer, O., XVI, 515, 518; XVII, 404, 538; XVIII, 379, 380, 394.
Neugebauer, P. V., XVI, 96, 104 551.
Neumann, C., XVIII, 371.
Neumann, G., XVI, 445.
Neumann, H., XVIII, 416.
Nevermann, J. F., XVIII, 411.
Neveu, R., XVIII, 383.
Neviani, A., XVIII, 465, 468.
Neville, A. H., XVII, 520.
Newcomen, T., XVIII, 354, 355.
Newell, L. C., XVIII, 502.
Newsholme, A., XVIII, 370.
Newton, I., XVI, 293, 309 ff., 497, 498; XVII, 178, 201, 214, 273, 325-30, 331, 333, 338 f., 344, 353, 379, 390, 395, 398, 400, 403 ff., 435 f., 443, 473, 507, 510; XVIII, 78, 162, 163, 198, 349, 398, 518; and passim.
Nicaise, V., XVI, 567.
Niccolò de' Conti, XVII, 488.
Nichols, H. W., XVIII, 504.
Nicholson, R. A., XVII, 488.
Nicod, J., XVI, 548; XVIII, 394.
Nicolai, E. A., XVIII, 501.
Nicolas Seemundarson, XVI, 527.
Nicolaus (Magister), XVII, 485.
Nicolaus da Reggio, XVII, 485.
Nicolay, N. de, XVIII, 353.
Nicolini, F., XVII, 513.
Nicolson, M. H., XVI, 141-43; XVIII, 100, 463.
Nicomachos of Gerasa, XVII, 56.
Niebuhr, B. G., XVIII, 365.
Nielsen, N., XVI, 448, 502.
Niemann, W. B., XVI, 515.
Niepce, N., XVII, 521.
Nierenstein, M., XVI, 439-46; XVII, 408-11; XVIII, 290-321, 502.
Nieuwenhuis, A. W., XVIII, 513.
Nightingale, F., XVII, 529; XVIII, 477.
Nijland, A. A., XVI, 499.
Nobel, G., XVII, 566

Nobile, U., XVIII, 373.
Noether, E., XVI, 507; XVIII, 474.
Noguchi, H., XVI, 510; XVII, 531; XVIII, 200-02, 374.
Noiville, J., XVII, 570.
Nollens, C., XVI, 493.
Nollet, J. A., XVII, 432.
Nonnos of Panopolis, XVI, 479; XVIII, 341.
Nordenskiöld, E., XVI, 561, 562; XVIII, 519.
Nordholm, G., XVII, 591.
Norman, H. J., XVIII, 416, 526.
Norpoth, L., XVI, 487.
Norris, F. A., XVII, 548.
Northrop, F. S. C., XVII, 273-77.
Northon (family), XVIII, 308 ff.
Norton, S., XVIII, 308.
Norton, T., XVIII, 285, 290-321.
Northon, T. I, XVIII, 310, 311-13.
Northon, T. II, XVIII, 310, 313-16.
Northon, T. III, XVIII, 310, 316-19, 320.
Northon, T. IV, XVIII, 310, 319-21.
Norvin, W., XVIII, 365.
Nostradamus, XVII, 494.
Notger, XVI, 190 f.
Nott, J. C., XVIII, 364.
Novak, G., XVIII, 524.
Nowotny, E., XVII, 542.
Nubar, Z., XVII, 578.
Nunn, G. E., XVI, 490.
Nūr al-dīn al-Ishbīlī, XVIII, 172.
Nussac, L. de, XVII, 429.
Nussbaum, J., XVIII, 377.
Nutt, R., XVII, 579.
Nuyens, B. W. T., XVI, 567.
Nykl, A. R., XVII, 430-31, 570.

O

Oberhummer, E., XVII, 551.
Obermaier, H., XVI, 563.
Obermann, J., XVI, 517.
Obermayer, J., XVI, 538.
Oberstein, XVIII, 465.
Obodas, IIIrd, XVII, 266.
Ocagne, M. d', XVII, 573; XVIII, 358, 397, 470, 477.
Occam, W. of, XVII, 489.
Ochsenius, C., XVIII, 476.
Odaxius, XVII, 77, 90.
Odeberg, H., XVII, 473.
Odell, L. R., XVII, 397.
Oden, M. H., XVII, 594.
Odling, C. E. A. W., XVIII, 387.
Odo (XI-2), XVIII, 342.
Odo of Bayeux, XVI, 198.
Örnehufwud, XVIII, 404.
Oersted, H. C., XVIII, 118 ff., 184 f., 360.
Oesterreich, T. K., XVII, 602.
Ogura, K., XVII, 391.
Ohmann, O., XVI, 565.
Okamoto, N., XVI, 448.
Oken, L., XVIII, 471.
Olaus, M., XVIII, 404.
Oldfather, W. A., XVII, 509.
Oldham, R. D., XVIII, 353.
Olearius, J. G., XVI, 499.
Olhafius, J., XVIII, 418.
Oliva, F. (the younger), XVIII, 353.
Oliver, P., XVII, 515.
Oliver, W. W., XVI, 571, 614.
Olivier, C. P., XVI, 551.
Olleris, A., XVII, 222 ff.
Olmstead, C. H., XVIII, 136.
Olrik, A., XVII, 545.
Olschki, L., XVIII, 486.
Olszewicz, B., XVII, 591.
Olwer, L. N. d', XVII, 246.

Olympiodoros, XVIII, 271.
O'Malley, I. B., XVII, 529.
Oman, C., XVIII, 512.
Omerique, H. de, XVI, 498.
Omont, H., XVII, 41 f., 50.
Oñate, J. de, XVII, 502.
Ore, O., XVI, 507; XVIII, 474.
Oresme, N., XVIII, 158, 159.
Orfila, M. J. B., XVII, 523; XVIII, 363.
Oribasios, XVI, 479; XVII, 477; XVIII, 340.
Orlando-Salinas, F., XVIII, 445, 466.
Ormond, Duke of, XVIII, 112.
Ornstein, M., XVIII, 82.
Ortelius, A. A., XVIII, 353.
Osborn, E. B., XVIII, 442.
Osborn, H. F., XVI, 508; XVIII, 368.
Osborne, T. B., XVIII, 373.
Osborne, W., XVIII, 417.
Oschitz, W. v., XVIII, 463.
Osgood, C. G., XVII, 490.
Osgood, S., XVI, 273.
Oslander, J. F., XVIII, 411.
Osler, W., XVIII, 370.
Osten, H. H. von der, XVII, 549; XVIII, 490.
Ōtsuki, N., XVI, 131.
Otto, A. W., XVIII, 362.
Ottow, B., XVI, 330.
Oudemans, A. C., XVI, 169; XVII, 587.
Oughtred, W., XVII, 396, 399.
Ould, F., XVIII, 417.
Ouvrier, B., XVI, 496.
Owen, R., XVI, 146.
Owen, W., XVII, 515.

P

Paal, H., XVII, 511.
Pacheco, D., XVII, 490.
Pachymère, G., XVII, 487.
Pacioli, L., XVII, 402.
Pacotte, J., XVIII, 396.
Paddy, W., XVIII, 293.
Paetow, L. J., XVIII, 384.
Pagel, W., XVI, 568; XVII, 611.
Paget, R. A. S., XVIII, 519.
Painlevé, P., XVII, 531.
Palanque, C., XVI, 93, 108; XVII, 7.
Palencia, A. G., XVII, 571.
Palfijn, J., XVI, 502.
Paliard, J., XVII, 575.
Palissy, B., XVII, 499.
Palladios, XVIII, 446.
Palmer, A., XVII, 394.
Palmer, H., XVIII, 357.
Paltsits, V. H., XVII, 515.
Pan Chao, XVIII, 444.
Pancirollo, G., XVII, 76.
Pander, H. C., XVI, 326 f., 333 ff., 341.
Paneth, F., XVII, 526.
Panhorst, K. H., XVII, 498.
Pāṇini, XVIII, 443.
Pantin, W. A., XVII, 546.
Papini, G., XVIII, 446.
Pappos, XVI, 132-36; XVII, 414, 473; XVIII, 445.
Paracelsus, XVI, 434, 440, 445, 490, 491, 552; XVII, 494, 496; XVIII, 346, 347, 458.
Pardiac, J. B., XVI, 192.
Pardies, J. G., XVIII, 157.
Park, C. F., XVII, 617.
Park, R., XVI, 571.
Parker, G., *see* Macclesfield,. G.
Parker. H. W., XVII, 515.

Parker, J., XVII, 129 f., 137.
Parker, T., *see* Macclesfield, T.
Parkes, J. W., XVII, 567.
Parks, G. B., XVII, 488.
Parmenides, XVII, 273.
Parr, T., XVIII, 351.
Parry, L. A., XVI, 568.
Parson, J. H., XVIII, 362.
Parsons, C. A., XVII, 530.
Parsons, F. G., XVIII, 510.
Parsons, R. P., XVI, 568; XVIII, 411.
Partington, J. R., XVIII, 191.
Pascal, B., XVI, 494; XVII, 187, 432, 443, 503, 507; XVIII, 462.
Pasha, A. T., XVI, 541.
Pasteur, L., XVI, 473, 552; XVIII, 402 f.
Pastregicus, G., XVII, 76, 91.
Patch, H. R., XVII, 490.
Patterson, R., XVI, 287, 306 f.
Patterson, T. F., XVIII, 87 ff.
Pauchet, V., XVI, 491.
Paul, C., XVIII, 511.
Paul, E., XVIII, 511.
Paul III (pope), XVIII, 79.
Paul IV (pope), XVIII, 80.
Paul of Venise, XVII, 36.
Pauli, A., XVIII, 418.
Paulus of Emerita, XVIII, 341.
Pausanias, XVIII, 339, 483.
Pauty, E., XVII, 571.
Pavlov, I. P., XVIII, 511.
Pavry, C. E., XVIII, 490.
Pax, F., XVII, 587.
Peachey, G. C., XVI, 568; XVIII, 353, 357, 462.
Peake, H., XVII, 539, 598; XVIII, 479, 510, 512.
Pearl, R., XVIII, 351, 357, 406.
Pearson, H., XVII, 516.
Peckham, J., XVI, 486.
Pedersen, H., XVII, 604.
Pediasimos, J., XVII, 54 ff.
Peet, T. E., XVI, 451; XVIII, 481
Peet, W. H., XVIII, 530.
Peiresc, F. de, XVIII, 350.
Peitz, W. M., XVII, 495.
Pejičić, C., XVIII, 524.
Pell, J., XVII, 100 ff.
Pellegrini, F., XVIII, 344.
Pelliot, P., XVII, 267 f.
Pelseneer, J., XVI, 141-43, 498, 504; XVII, 171-208, 209, 214, 215, 216, 259, 331, 507; XVIII, 359, 494, and passim.
Pemsel, F., XVII, 516.
Pendlebury, J. D. S., XVI, 515; XVIII, 379.
Pendred, L. St. L., XVIII, 355.
P'ēng Hsiao, XVII, 442.
Penjon, A., XVII, 606.
Penniman, T. K., XVII, 600.
Penzer, N. M., XVII, 488.
Pepys, S., XVI, 472; XVII, 124; XVIII, 98 f., 103.
Pérébaskine, XVIII, 512.
Pereira, D. P., XVII, 492.
Pérès, J., XVII, 573.
Pérez, C., XVIII, 392, 494.
Pérez, J. A. S., XVI, 486.
Perez de Luxan, D., XVII, 499.
Perfect, W., XVIII, 417.
Pergoli, B., XVIII, 466.
Perrin, J., XVII, 531; XVIII, 392.
Persico, E., XVII, 530.
Persius, A. F., XVI, 398, 411.
Pertzoff, V., XVIII, 465.
Peslouan, XVII, 393.
Pestalozzi, J. H., XVII, 518.
Pet, XVIII, 347.
Peters, J. P., XVIII, 374.
Peters, N., XVII, 471.
Petersen, C., XVIII, 336.

Petersen, K., XVII, 583.
Petit, A., XVIII, 357.
Petrarca, XVIII, 344.
Pétrequin, J. E., XVIII, 336.
Petrie, F., XVII, 265, 529, 533, 535, 536, 538, 567, 597; XVIII, 11, 378, 477.
Pétrof, D. K., XVII, 430.
Petrus Comestor, XVIII, 17.
Petrus Helias, XVIII, 17.
Petrus Peregrinus de Maricourt, XVII, 393, 420.
Pettazoni, R., XVI, 565.
Petterson, O., XVI, 391.
Pettigrew, T. J., XVI, 506; XVII, 523; XVIII, 472.
Petty, W., XVII, 101; XVIII, 113, 117.
Petzoldt, J., XVI, 565.
Peucer, C., XVII, 498.
Pez, B., XVI, 192.
Pfeffer, W., XVIII, 402.
Pfeiffer, O., XVI, 554.
Pfister, C., XVI, 191.
Pfister, F., XVII, 606.
Pflaum, H., XVIII, 454.
Pflugk, A. v., XVI, 554.
Philagrios of Thessalonica, XVII, 477; XVIII, 340.
Philipp, J. J., XVIII, 356.
Philippe Auguste, XVI, 527.
Philon the Jew, XVII, 473, 474.
Philon of Byzantium, XVII, 279 f.
Philoponos, J., XVII, 479; XVIII, 447 f., 449.
Phiraeus, D. I., XVIII, 416.
Phyllis, XVI, 477.
Piazza-Martini, V., XVII, 523.
Piazzi, J., XVII, 140.
Picard, E., XVII, 443 f.; XVIII, 400, 477.
Picard, J., XVI, 234, 278.
Piçarro, G., XVII, 497.
Piccard, A., XVII, 526.
Piccini, A., XVII, 527.
Piccinni, P., XVIII, 466.
Pickard, W. A., XVIII, 443.
Pickthall, M., XVII, 479.
Piéron, H., XVIII, 368.
Piéry, M., XVII, 614.
Pietro de Abano, XVI, 487.
Pillet, M., XVIII, 481.
Pillsbury, W. B., XVIII, 519.
Pina Guimaràes, L. J. de, XVII, 611.
Pinard de la Boullaye, H., XVII, 272.
Pincherle, B., XVII, 528; XVIII, 473.
Pindemonte, F., XVIII, 344.
Piney, A., XVII, 446-47.
Pinoff, J., XVIII, 337, 338.
Pintar, I., XVIII, 524.
Pinto, O., XVI, 484.
Pio, P., XVIII, 466.
Pirenne, J., XVIII, 481.
Piso, W., XVIII, 467.
Pitcairn, D., XVI, 568.
Pitcairn, H. F., XVIII, 504.
Pitfield, R. L., XVII, 519.
Pitiscus, B., XVII, 401.
Pizzagali, A. M., XVII, 604.
Place, F., XVIII, 365.
Plaisted, B., XVII, 511.
Planck, M., XVI, 497; XVII, 574; XVIII, 392.
Planer, R., XVI, 568.
Plantefol, L., XVIII, 392.
Plarr, V. G., XVI, 568; XVIII, 411 f.
Plassmann, J., XVI, 494; XVII, 526.
Platearius, XVIII, 42.
Platon, XVI, 133; XVII, 280, 420,

440, 471, 541; XVIII, 336, 442, 443; and passim.
Platon of Tivoli, XVII, 57.
Platter, T., XVII, 502.
Plessner, M., XVI, 541.
Plinius, S., XVI, 439 f.; XVII, 117, 415 f., 420, 474, 475; XVIII, 36, 338, 400, 444.
Plücker, J., XVII, 158.
Podolsky, E., XVII, 581.
Pogány, B., XVII, 422.
Pogo, A., XVI, 93, 102-114, 161-67, 173-74, 512-14, 515, 518, 546, 551, 558; XVII, 6-24, 209, 213, 215, 216, 267-71, 530; XVIII, 7-13, 461, 475, 481, 489; and passim.
Poincaré, H., XVI, 159 f.; XVII, 443.
Poisson, S. D., XVI, 547.
Pollak, H., XVIII, 519.
Polo, M., XVI, 574; XVII, 487, 488.
Pomerai, R. de, XVIII, 516.
Pomerantz, J., XVI, 507.
Pompeckj, J. F., XVI, 309.
Pompilius, A., XVII, 42, 43, 51.
Pomponazzi, P., XVII, 498.
Poncelet, J. V., XVI, 545.
Pond, A. W., XVIII, 512.
Pond, T., XVII, 505.
Pope, A. U., XVI, 539.
Pope, S. T., XVI, 563; XVII, 583.
Porta, G. B., XVII, 419, 502.
Poseidonios, XVII, 477; XVIII, 340.
Postelmann, A., XVIII, 465.
Pot, J., XVII, 501.
Potonniée, G., XVII, 521.
Potter, C. F., XVII, 607.
Pottle, F. A., XVIII, 374.
Pouchet, F. A., XVIII, 344.
Pound, J., XVI, 233; XVII, 135.
Power, d'Arcy, XVI, 471-72, 564, 568; XVII, 528, 602; XVIII, 412, 524.
Power, H., XVIII, 103 ff.
Power, W., XVII, 466.
Powers, G., XVI, 55 ff.
Prado y Tovar, D., XVI, 495; XVII, 504.
Praepositus, N., XVIII, 58.
Prag, A., XVI, 498.
Prasad, I., XVII, 555.
Preisendanz, K., XVIII, 453, 483, 530.
Preisser, XVI, 433.
Prendergast, J. F., XVIII, 339.
Pressland, A. J., XVIII, 366.
Preuss, E., XVII, 517.
Prévité-Orton, C. W., XVII, 487.
Prévost, J. L., XVI, 318 ff.
Price, G. M., XVIII, 391.
Priestley, J., XVI, 552; XVII, 513; XVIII, 356, 402.
Prieur-Duvernois, C. A., XVI, 278.
Profatius, J., *see* Jacob b. Maḥir i. Tibbon.
Proskauer, E. V. L. C., XVIII, 526.
Proust, J. L., XVI, 552.
Provenzal, G., XVII, 527.
Pṛthudakasvāmī, XVII, 29, 30.
Prunes, E., XVI, 558.
Przibram, K., XVIII, 361.
Przybyllock, E., XVIII, 396.
Przywara, E., XVIII, 446.
Psellos, M., XVI, 548; XVIII, 452.
Ptolemaios, C., XVI, 194, 204 ff.; XVII, 52 f., 405, 428, 476; XVIII, 31, 338, 346, 395, 445; and passim.
Pufendorf, S., XVII, 509.
Puhlmann, W., XVI, 525.
Puiseux, P., XVII, 269; XVIII, 477.

Purcell, V. W. W. S., XVII, 559.
Purchas, S., XVII, 505.
Purkinje, J. E., XVI, 318, 325, 327; XVII, 522.
Putti, V., XVII, 611; XVIII, 400.

Q

al-Qādī, ibn, XVIII, 169, 179, 180, 181.
al-Qādirī, Muḥ, XVIII, 169.
al-Qalaṣādī, XVIII, 175, 178, 179.
al-Qifṭī, ibn, XVI, 7, 9 ff.; XVIII, 166, 447 f.
Qostūs ibn Askūraskīna, XVI, 14.
Quarles, F., XVIII, 351.
Quasten, J., XVII, 533.
Quesnay de Beaurepaire, A. M., XVIII, 469.
Quetelet, E., XVI, 507.
Quetif, J., XVII, 35.
Quibel, J. E., XVII, 536.
Quidde, XVII, 520.
Quignon, G., XVIII, 350.
al-Qunfūdh, ibn, XVIII, 174.
Qurbān, Dā'ūd, XVIII, 376.

R

Rabaud, E., XVIII, 373.
Rabbards, R., XVII, 118, 121.
Rabi Çag, XVII, 219, 226, 228 f., 232.
Racek, J., XVI, 491.
Rachmati, G. R., XVII, 550.
Radcliffe, J., XVI, 568.
Rademacher, H., XVII, 577; XVIII, 353, 354, 496.
Rādhakrishnan, S., XVI, 533.
Radiguet, M. R., XVII, 524.
Radin, M., XVIII, 338.
Rádl, E., XVII, 585.
Radolf of Liége, XVI, 191 f., 200 f.
Raeder, J., XVII, 477.
Raginbold, (Raimbaud) of Cologne. XVI, 191, 196, 200.
Rahn, C., XVIII, 521.
Rahn, J. H., XVII, 402.
Raignier, A., XVIII, 368.
Railliet, G., XVII, 512.
Raine, J., XVI, 198.
Rainoff, T., XVI, 548.
Raleigh, W., XVII, 107, 116, 126.
Raman, C. V., XVIII, 361.
Ramana-Sastrin, V. V., XVI, 546.
Ramanujachariar, N., XVII, 25.
Rāmānuja, XVI, 533.
Ramirez, R., XVII, 501.
Ramkrisnadeva, XVII, 31.
Ramsay, W., XVI, 552.
Ramsbottom, J., XVII, 586; XVIII, 419.
Ramsden, J., XVII, 140, 142.
Ramses II, XVI, 93.
Ramsey, F. P., XVII, 575.
Ramus, P., XVI, 420.
Rand, B., XVIII, 354.
Randall-MacIver, D., XVII, 541.
Randle, H. N., XVIII, 488.
Rangacarya, M., XVII, 26.
Ranke, H., XVIII, 482.
Ransom, W., XVII, 619.
Raphson, J., XVII, 395.
Rappolt, C. H., XVIII, 465.
Rasel, J., XVI, 446.
Rashi, XVII, 483.
al-Rasmūkī, XVIII, 182.
Rastrick, XVIII, 356, 360.
Rath, E. v., XVIII, 530.
Ratherius, XVI, 190.
Rathke, M. H., XVI, 327, 329.
Ravenel, H., XVIII, 134.
Ravenel, H. W., XVIII, 133-49 (portr.).

Ray, J., XVIII, 463.
Rayleigh, lord, XVI, 510; XVIII, 375.
al-Rāzī, XVI, 10 ff.; XVII, 481; XVIII, 31, 38, 450.
Real, L., XVII, 180.
Réau, L., XVII, 604.
Réaumur, R. A. F. de, XVI, 170; XVII, 432.
Recht, E., XVIII, 461.
Recorde, Ra., XVII, 98.
Recorde, Ri., XVIII, 295.
Recorde, Ro., XVII, 103, 400; XVIII, 295.
Redi, F., XVII, 290, 311, 315 f.; XVIII, 463.
Reed, C. I., XVII, 528.
Reed, W., XVI, 473.
Reeds, C. A., XVIII, 509 f.
Reeves, J. B., XVIII, 446.
Regenbogen, O., XVI, 519.
Reginald of Walsingham, XVIII, 18.
Register, L. B., XVIII, 515.
Regling, K., XVII, 597.
Regnault, F., XVIII, 526.
Reichardt, E., XVIII, 501.
Reiche, K., XVIII, 365.
Reichenbach, H., XVIII, 397.
Reid, E. G., XVIII, 370.
Reinach, S., XVI, 479; XVII, 607.
Reinach, T., XVI, 479.
Reinerus, XVI, 190.
Reinke, J., XVI, 556.
Reisch, G., XVII, 92.
Reiser, A., XVI, 510.
Reitzenstein, R., XVI, 541.
Rele, V. G., XVII, 555.
Remsen, I., XVIII, 501.
Remy, N., XVII, 602.
Renan, E., XVII, 36.
Renard, G., XVIII, 348.
Renaud, H. P. J., XVII, 481, 485, 517, 524; XVIII, 166-83.
Renaudot, T., XVII, 501.
Rengstorf, K. H., XVII, 567.
Renou, L., XVI, 533.
Renouard, P. V., XVIII, 412.
Renzi, S. de, XVIII, 337, 413.
Reparaz, G. de, XVI, 558; XVIII, 404.
Reparaz, G. de (jr.), XVI, 173-74, 492, 558; XVII, 490; XVIII, 509.
Résillac-Roese, R. de, XVIII, 489.
Retzius, A., XVI, 325.
Reuss, F. A., XVII, 516.
Reussner, A., XVIII, 469.
Reuther, H., XVII, 504.
Revelli, P., XVII, 495.
Rey, Ab., XVI, 511.
Rey, Ag., XVII, 499.
Reymond, A., XVII, 403.
Reynolds, J. H., XVIII, 451.
Rey-Pailhade, J., XVII, 229.
Rhabdas, N., XVII, 59, 65.
Rheticus, G. J., XVI, 136.
Rhys, B., XVII, 469.
Ricard, R., XVII, 492, 493.
Ricci, S. de, XVI, 525.
Rice, T., XVII, 548.
Richard, A., XVIII, 471.
Richard of Canterbury, XVIII, 15.
Richards, T. W., XVI, 507; XVIII, 501.
Richards, W., XVII, 519.
Richardson, E., XVIII, 133.
Richardson, H., XVI, 546.
Richarz, S., XVIII, 509.
Richer, P., XVI, 525.
Richter, G. M. A., XVIII, 382.
Richter, H., XVII, 500; XVIII, 404.
Richter, J. B., XVI, 552; XVII, 514.

Richter, R., XVIII, 472.
Rickard, T. A., XVII, 593.
Rickmers, C. M., XVIII, 486.
Rickmers, W. R., XVII, 550.
Ridley, M., XVII, 97, 116.
Rieck, W., XVIII, 455, 469, 473, 526.
Riecke, XVIII, 528.
Riedinger, L. A., XVI, 507.
Riesenfeld, E. H., XVIII, 475.
Rigaud, S. P., XVI, 236, 238; XVII, 129 ff., 341.
Rignano, E., XVII, 263, 531; XVIII, 403.
Riiser-Larsen, H., XVI, 380, 387 f.
al-Rijal, ibn abī, XVIII, 172, 174.
Rijnberk, G. van, XVIII, 352, 463.
Řikovsky, F., XVII, 591.
Rink, W., XVII, 502.
Ripley, G., XVIII, 296, 297, 299.
al-Rīshī, XVIII, 175.
Rittenhouse D., XVI, 285, 289, 309 ff.
Ritter, P.,
Rive, C. G. de la, XVIII, 121, 124.
Rivet, P., XVI, 562.
Robb, A. A., XVI, 809.
Robbins, F. E., XVI, 479.
Robert Anglès, XVII, 219, 226, 228, 232.
Robert of Chester, XVI, 405, 414; XVII, 397; XVIII, 24.
Robert de Lorraine, XVI, 197.
Robert de Losinga, XVIII, 24.
Roberts, F. H. H., XVIII, 478.
Rioberts, G., XVII, 511.
Robertson, A., XVI, 236.
Robertson, R., XVIII, 361.
Robertus Vallensis, XVIII, 296.
Roberval, de, XVIII, 458.
Robin, C. P., XVIII, 369.
Robinet, J. B. R., XVIII, 357.
Robinson, G. L., XVII, 533, 567.
Robinson, V., XVI, 568, 571; XVII, 611; XVIII, 528.
Rochd, ibn, XVI, 486; XVIII, 48, 202, 453.
Roche, A., XVII, 594.
Rock, J. F., XVI, 535.
Roddis, L. H., XVII, 517.
Rodenberg, J., XVIII, 530.
Rodwell, E. H., XVII, 484.
Roeder, F., XVI, 177.
Röder, G., XVI, 93; XVII, 606.
Roemer, O., XVI, 257; XVII, 334.
Rönne, L. v., XVIII, 418.
Rönnow, S., XVII, 513.
Roentgen, W. K., XVII, 390; XVIII, 366.
Roër, E., XVII, 555.
Roerich, G. de, XVIII, 478, 486.
Roerich, G. N., XVI, 530; XVIII, 485, 486.
Röslin, E., XVIII, 347, 457.
Roger de Avestane, XVIII, 18.
Roger Compotista, XVIII, 16, 18.
Roger de Haseleya, XVIII, 18.
Roger of Hereford, XVIII, 14 ff.
Roger Infans, XVIII, 16, 24.
Rogers, R. W., XVI, 538; XVII, 568.
Roggeveen, J., XVII, 511.
Rogina, J., XVII, 614.
Rogozin, S., XVI, 529.
Rohault, J., XVII, 432.
Róheim, G., XVII, 603.
Rohlfs, G., XVII, 541.
Rohr, M. v., XVI, 501, 505, 550, 551, 554; XVII, 504, 514; XVIII, 500, 504.
Rohwer, S. A., XVII, 292.
Roland-Gosselin, B., XVIII, 446.
Rolants, E., XVII, 611.

Rolfinck, W., XVIII, 500.
Roll, E., XVII, 514.
Rolle, M., XVII, 395.
Rolleston, H., XVI, 473, 569; XVII, 612, 616; XVIII, 351, 524.
Rolleston, J. D., XVIII, 364, 473.
Rollmann, XVII, 526.
Rolt, F. H., XVIII, 397.
Romberg, E. v., XVIII, 526.
Rome, A., XVI, 548, 549; XVIII, 445, 496, 498.
Romieu, A., XVI, 102.
Romocki, S. J. v., XVII, 36 ff.
Ronhaar, J. H., XVII, 601.
Rooke, L., XVIII, 108.
Roomen, A. van, XVII, 499.
Roosevelt, K., XVIII, 373.
Roosevelt, T., XVII, 446.
Rose, H. J., XVII, 608.
Rose, M., XVII, 585.
Rose, W. J., XVI, 136-38.
Rosebault, C. J., XVIII, 453.
Roselli, F., XVI, 490.
Rosen F., XVI, 404 ff., 538; XVII, 484, 553.
Rosen, G., XVI, 538.
Rosenbaum, M., XVI, 538.
Rosenberg, J., XVII, 567.
Rosenfeld, L., XVII, 325-30.
Rosenthal, E., XVI, 533.
Roser, W., XVIII, 472.
Roshem, J., XVIII, 614.
Rosny, J. H., XVII, 606.
Ross, A., XVII, 603.
Ross, E. D., XVII, 536.
Ross, R., XVI, 170, 473.
Ross, W. D., XVIII, 31, 443.
Rossignol, J., XVIII, 395.
Rossnagel, P., XVI, 495.
Rossi, M. M., XVIII, 467.
Rost, J. L., XVIII, 464.
Rostand, J., XVIII, 403.
Rostovtzeff, M. I., XVIII, 383, 479.
Roth, C., XVII, 567.
Roth, L., XVI, 500; XVII, 179, 564.
Rothschild, M. A., XVIII, 365.
Rothwell, F., XVIII, 486.
Rottmanner, M., XVI, 504.
Rouch, J., XVI, 478; XVII, 531; XVIII, 475.
Rouffaer, G. P., XVII, 500.
Rougier, L., XVIII, 462.
Roule, L., XVIII, 470.
Round, J. H., XVIII, 19.
Rouphos of Ephesos, XVII, 476; XVIII, 338.
Rousseau, J. J., XVII, 519, 520.
Roussin, A., XVII, 495; XVIII, 348.
Roy, H., XVII, 527.
Royds, W. R., XVIII, 373.
Royen, G., XVII, 604.
Rubió i Lluch, A., XVI, 173.
al-Rūdānī, XVIII, 177.
Rudberg, F., XVII, 164, 167, 170.
Rudd, H. F., XVI, 534.
Rudwin, M., XVIII, 208.
Ruedemann, R., XVIII, 530.
Rümelin, J., XVI, 496.
Rüsche, F., XVI, 566.
Ruffini, P., XVII, 395; XVIII, 470.
Rufinus, XVIII, 63-76.
Rufus, W., XVI, 197.
Rufus, W. C., XVIII, 197 ff.
Rumford, *see* Thompson, B.
Rūmī, Falāl-ud-Dīn, XVII, 488.
Rumsey, J., XVII, 514.
al-Rūndi, XVIII, 178.
Rupel, A., XVIII, 345.
Ruscellus, J., XVIII, 459.
Ruska, J., XVI, 402 ff.; XVIII, 150-65, 502.

Russell, B., XVI, 548, 565; XVIII, 394.
Russell, B. R. G., XVI, 571.
Russell, E. S., XVIII, 585.
Russell, J. C., XVIII, 14-25.
Rutherford, J., XVI, 302, 313.
Ruyer, R., XVIII, 365.
Rychlík, K., XVII, 520.
Rye, W., XVIII, 22.
Rymer, S., XVIII, 526.
Rynning, O., XVIII, 522.

S

Saar, J. J., XVII, 508.
Sabatier, P., XVII, 487; XVIII, 476.
Sabellicus, XVII, 76, 79, 91.
Saccheri, G., XVIII, 464.
Sachs, C., XVIII, 379.
Sachs, H., XVIII, 457.
Sachse, J. D. W., XVIII, 413.
Sacrobosco, J. de, XVI, 418 ff.; XVII, 228, 251; XVIII, 456.
Sacy, S. de, XVI, 394 ff.
al-Saffār, ibn, XVII, 257 f.; XVIII, 171, 175.
Sahl b. Bishr, XVIII, 170.
Ṣā'īd al-Andalusī, XVII, 483.
Ṣā'id b. Fatḥūn, XVIII, 171.
Saidla, L. E., XVI, 546; XVII, 519.
St. John, C. E., XVIII, 498.
Sainte-Laguë, A., XVIII, 497.
Saintyves, P., XVIII, 408.
Sakâzov, I., XVIII, 514.
Sakisian, A. B., XVI, 59; XVIII, 490.
Sakurai, J., XVI, 536.
Saladin, XVIII, 453.
Salani, XVII, 291.
Salkowski, E., XVII, 157.
Salmony, A., XVIII, 530.
Salomon, W., XVIII, 504.
Ṣalt, abū-l, XVII, 257.
Salvianus Massiliensis, St., XVII, 477.
Salzman, L. F., XVII, 546; XVIII, 485.
Sambucus, J., XVII, 500.
al-Samḥ, ibn, XVIII, 171.
Samkara, XVI, 533.
al-Samlālī, XVIII, 182.
Sampson, R. A., XVI, 499.
Sánchez Pérez, J. A., XVIII, 167.
Sanctis, S. de, XVIII, 521.
Sanctorius, XVIII, 461.
Sanda, A., XVII, 479.
Sander, F., XVIII, 511.
Sanderson, J., XVII, 500.
Sanford, E. M., XVII, 478.
Sanford, K. S., XVIII, 379.
Sankarācārya, XVII, 555.
San Niccolò, M., XVIII, 380, 482.
Santi, de, XVIII, 466.
Sapin, L., XVII, 604, 605, 607; XVIII, 333, 355, 381, 407, 439.
Sarcone, M., XVIII, 468.
Sardi, M., XVII, 76, 79.
Sarechel, *see* Alfredus Anglicus.
Sarkar, S. C., XVII, 555.
Sarma, P. J., XVII, 555.
Sartiaux, F., XVIII, 521.
Sarton, G., XVI, 115-23, 143-45, 155-57, 167-73, 178-84, 233-65, 315-78, 450-51, 451-55, 455-63, 468-71, 476, 477, 478, 480, 484, 486, 487, 498, 499, 502, 509, 516, 522, 527, 542, 544, 545, 546, 556, 571, 574; XVII, 154-70, 209-17, 264, 265-67, 271-73, 278-82, 283-84, 333-83, 444, 475, 480, 514, 531, 546, 547, 573, 574, 581, 619; XVIII, 376, 398, 445, 452, 464, 472, 494, 530; and passim.

Saudek, R., XVIII, 519.
Saumaise, C. de, XVII, 183.
Saunders, XVIII, 187.
Saussure, H. B. de, XVIII, 402.
Saussure, L. de, XVII, 267-71, 560; XVIII, 388.
Sauvaire, H., XVII, 229.
Sauvé, C., XVIII, 350.
Savart, F., XVIII, 185.
Savary, F., XVIII, 126.
Savasorda, *see* Abraham bar Ḥiyya,
Savile, H., XVII, 341.
Savonarola, G., XVII, 493.
Sawata, G., XVII, 264.
Sawyer, W. H., XVIII, 408.
Saxton, C., XVII, 500.
Say, B., XVI, 145.
Say, T., XVI, 145-46; XVIII, 472.
Sayers, W. C. B., XVII, 619.
Sbaraglia, XVII, 319.
Scalinci, N., XVII, 485.
Scarpa, A., XVIII, 466.
Scellingk, T., XVI, 568.
Schaad, H., XVII, 519.
Schaade, A., XVI, 541.
Schacht, J., XVIII, 444, 491.
Schadelbauer, K., XVI, 496.
Schadewaldt, W., XVIII, 442.
Schaeder, H. H., XVIII, 449.
Schaefer, A., XVII, 478.
Schaefer, C., XVIII, 358.
Schäfer, H., XVI, 516.
Schaefer, M., XVI, 538.
Schaerer, R., XVII, 541.
Schapiro, D., XVIII, 513
Scharff, A., XVIII, 379.
al-Schāṭir, ibn, XVI, 488.
Schaumberger, J. B., XVI, 518.
Schechter, S., XVI, 538.
Scheele, C. G., XVI, 552; XVIII, 402.
Scheer, H., XVI 573
Schenck, H. P., XVI, 569.
Schering, A., XVIII, 517.
Scheuermann, L., XVI, 559.
Scheunert, G., XVI, 510.
Schevensteen, A. van, XVII, 614.
Schiaparelli, G. V., XVI, 508.
Schiff, J., XVII, 521.
Schiller, J. C. F., XVII, 610.
Schilling, H., XVII, 472.
Schilling-Wollny, K., XVIII, 443.
Schimank, H., XVI, 495, 546, 552.
Schinz, A., XVII, 520.
Schjöth, F., XVII, 551.
Scleich, C. L., XVII, 529.
Schleisner, P. A., XVIII, 416.
Schlesinger, K., XVII, 279; XVIII, 517.
Schliemann, XVII, 529.
Schlissel v. Fleschenberg, O., XVIII, 446.
Schmalzl, P., XVII, 248 ff.
Schmarsow, A., XVII, 488.
Schmid, A., XVIII, 464.
Schmid, G., XVI, 145, 499, 502, 505.
Schmidt, A., XVII, 616.
Schmidt, E. F., XVII, 549.
Schmidt, H., XVI, 178.
Schmidt, N., XVIII, 345.
Schmidt, W., XVII, 607.
Schmieder, XVII, 409; XVIII, 297.
Schmitthenner, P., XVII, 583.
Schmitz, F., XVI, 541.
Schmiz, K., XVI, 503.
Schneider, A., XVIII, 346.
Schneider, C. V., XVIII, 527.
Schneider, G., XVII, 619; XVIII, 530.
Schneider, Her., XVI, 525.
Schneider, J., XVIII, 351.
Schneider, K. E. C., XVIII, 336, 339.

Schniermann, A. L., XVIII, 511.
Schnittger, XVI, 178.
Schoch, C., XVII, 530
Schönbein, C. F., XVI, 429, 552.
Schöne, H., XVII, 57.
Schönfeld, W., XVII, 506.
Scholarios Gennade, XVII, 492.
Scholtz, H., XVII, 472.
Schomerus, H. W., XVII, 553.
Schonerus, L., XVII, 259.
Schooten, F. van, XVIII, 350.
Schott, A., XVII, 606.
Schoute, D., XVIII, 473.
Schoutheete de Tervarent, G. de, XVII, 546.
Schoy, C., XVI, 451; XVIII, 162, 163.
Schrader, F. O., XVII, 555.
Schreiber, G., XVIII, 384.
Schrempf, C., XVIII, 366.
Schrenk, XVIII, 413.
Schröder, A., XVI, 554.
Schroeder, F. R., XVII, 606.
Schrötter, F. v., XVII, 597.
Schub, P., XVII, 54-70.
Schubring, W., XVII, 470.
Schuchert, C., XVIII, 477.
Schuchhardt, C., XVII, 529.
Schücking, L. L., XVII, 501.
Schüler, W., XVII, 560.
Schürer-Waldheim, F., XVII, 517.
Schütz, A., XVI, 490.
Schultz, W., XVIII, 470.
Schultze, M. J. S., XVII, 528; XVIII, 367.
Schulz, H., XVI, 144.
Schulz, J., XVII, 278.
Schumacher, H. C., XVII, 260, 404.
Schunke, I., XVIII, 347.
Schurhammer, G., XVI, 500; XVII, 495, 498.
Schuster, H. S., XVI, 518.
Schuster, J., XVI, 503.
Schwann, T., XVI, 325.
Schartz, J. H. H., XVI, 809.
Schwarz, M., XVIII, 459.
Schweinfurth, P., XVII. 546.
Schweinitz, L. D. de, XVIII, 140 ff.
Schweitzer, A., XVIII, 374.
Schwenninger, O., XVI, 554.
Schwerin, C. v., XVI, 178.
Science, M., XVIII, 446.
Scot, M., XVIII, 36.
Scot, R., XVI, 563.
Scott, E., XVII, 592.
Scott, R. XVI, 519.
Scott, R. F., XVIII, 372.
Scott, W. B., XVIII, 368.
Scotus, M., XVI, 197.
Scotus, O., XVII, 42.
Scovil, E. R., XVIII, 477.
Sears J. E. jr., XVIII, 397.
Seashore, C. E., XVIII, 405.
Sebelien, J., XVII, 582.
Sebokht, S., XVI, 411.
Seckendorf, E., XVI, 493; XVIII, 473, 525.
Sédillot, L. A., XVII, 248 ff.
Sedgwick, W. T., XVI, 473; XVII, 126.
Seeberg, E., XVII, 606.
Seelus, v., XVI, 505.
Seemann, H. J., XVI, 542.
Segerus, G., XVIII, 418.
Segond, J., XVII, 595.
Séguin, M., XVII, 443.
Seibels, R. E., XVI, 502; XVIII, 467.
Seidenschnur, O., XVIII, 413, 416.
Seidlitz, W. v., XVII, 540; XVIII, 441.
Seippel, A., XVI, 542.

Seitz, F., XVIII, 364, 417.
Sekhet'enanch, XVIII, 527.
Selbie, W. B., XVII, 564.
Sellin, E., XVI, 539.
Sémach, Y. D., XVII, 529.
Semelaigne, XVIII, 526.
Semičov, B., XVII, 549.
Semmelweis, I. P., XVI, 506.
Semper, M., XVII, 549.
Semple, A. C., XVII, 587.
Senart, E., XVII, 556.
Senatus Bravonius, XVIII, 19.
Sendelius, C., XVIII, 418.
Senebier, J., XVIII, 402.
Seneca, L. A., XVII, 420.
Sengupta, P. C., XVII, 478, 556.
Senk, H., XVI, 571.
Senmut, XVI, 93 ff., 515; XVII, 20, 21.
Senn, G., XVIII, 442, 507.
Sequiera, J. H., XVIII, 370.
Serapio, XVII, 482.
Serapio the Elder, *see* Damascenus, J.
Serboianu, P., XVII, 594.
Sergent, E., XVII, 524.
Sergescu, P., XVII, 422.
Sergi, A., XVIII, 351.
Serour, M. A., XVII, 529.
Serrurier, C., XVIII, 460.
Servien, P., XVII, 503.
Sethe, K., XVI, 103, 516; XVII, 7, 537; XVIII, 11, 482.
Seti Ist, XVI, 93, 105 ff., 516; XVII, 20.
Seton, E. T., XVII, 446.
Severos of Antioch, XVII, 478, 479.
Šević, A. S., XVIII, 524.
Sevin, E., XVIII, 397.
Sewel, R. B., XVIII, 488.
Seydl, O., XVII, 260.
Seyffert, C., XVII, 588.
Sgrooten, C., XVIII, 353.
Shabbethai ben Moses, XVII, 60.
Shaftesbury, XVIII, 526.
al-Shahrastāni, XVII, 485.
Shakespeare, XVII, 104, 107, 111, 117, 126, 501, 502; XVIII, 132.
Shao-chün, XVII, 441.
Shapley, H., XVII, 579.
Sharp, H. A., XVII, 592.
al-Sharrān, ibn, XVIII, 175.
Shattuck, L., XVI, 473.
Shaw, N., XVIII, 471.
Sha'yā b. Firīghūn, XVIII, 171.
Shearer, A. H., XVII, 453-64.
Shetrone, H. C., XVI, 562.
Shinjō, S., XVI, 535.
Shipman, H. R., XVII, 453-64.
Shirokogoroff. S. M., XVII, 552.
Shotwell, J. T., XVIII, 521.
Short, W., XVI, 286.
Shryock, R. H., XVIII, 364.
Shuman, J. W., XVIII, 364.
Siao, Tsen-Tsan, XVII, 560.
Siber, T., XVI, 504.
Sichel, XVIII, 383, 385.
Ṣiddīqī, Muḥ. Zubair, XVI, 6 ff.
Sidgwick, H., XVII, 605.
Sidhanta, N. K., XVII, 556.
Sidney, P., XVII, 97.
Sieur, XVIII, 370.
Sigeric of Canterbury, XVI, 527.
Sigerist, H. E., XVI, 496, 510, 525, 569; XVII, 493, 611, 612; XVIII, 26, 57, 80, 192, 413, 524, 528.
Sighinolfi, L., XVII, 489.
Šik, L., XVIII, 524.
Silberberg, M., XVII, 56.
Silbermann, A. N., XVI, 538.
Sillig, J., XVIII, 338.
Silliman, B., XVIII, 501.
Silva y Figueroa, G. de, XVI, 496.
Simchoni, J. N., XVI, 539.

Simmons, F., XVII, 607.
Simon ben Ẓemaḥ Duran, XVII, 69.
Simon de Cordo-Januensis, XVIII, 47, 50.
Simon du Fresne, XVIII, 19 ff.
Simon Melud, XVIII, 20.
Simon of Sierpiec, XVI, 137.
Simon, H., XVIII, 418.
Simon, W., XVII, 549.
Simons, L. G., XVI, 502, 549; XVII, 384, 513.
Simons, W., XVII, 603.
Simpson, W. D., XVII, 477.
Sin, P., XVII, 560.
Sīnā, ibn, XVII, 437 f.; XVIII, 26 ff., 264.
Sinclair, J. H., XVI, 492; XVII, 496.
Sinclair, T. A., XVII, 547.
Sindik, I., XVII, 582.
Singer, C., XVII, 178, 564, 574, 585; XVIII, 26, 192, 403.
Singer, D. W., XVI, 541; XVII, 564; XVIII, 192, 398.
Singer, K., XVIII, 443.
Sinobas, M. R., XVII, 219, 252.
Sirén, O., XVII, 560.
Sirven, J., XVI, 494.
Šišic, F., XVIII, 524.
Sisson, XVII, 128, 129, 145.
Sistaire, L., XVI, 146.
Siun-Tsŭ, XVII, 558.
Siwek, P., XVIII, 336, 354.
Skandasena, XVII, 29, 30.
Skavlem, H. L., XVIII, 512.
Skelton, R. W., XVIII, 373.
Sköld, H., XVI, 533; XVIII, 443.
Skowronnek, K., XVII, 530.
Skutil, J., XVIII, 465.
Sleen, W. G. N. v. d., XVI, 530.
Slevogt, J. A., XVIII, 500.
Sloley, R. W., XVII, 537, 542; XVIII, 482.
Slosser, G. J., XVIII, 522.
Smart, H. R., XVII, 575.
Smeaton, J., XVII, 419.
Smellie, W., XVIII, 417.
Smetana, B., XVIII, 371.
Smith, C. A., XVII, 592.
Smith, C. C., XVII, 603.
Smith, D. B., XVII, 618.
Smith, D. E., XVI, 396 ff., 547, 549; XVII, 27, 384, 394, 395, 403.
Smith, E. C., XVIII, 355, 361.
Smith, Ed. F., XVIII, 501.
Smith, Eg. F., XVI, 571.
Smith, F. E., XVIII, 510.
Smith, G., XVIII, 381.
Smith, G. A., XVII, 564.
Smith, G. E., XVI, 564; XVII, 534, 594; XVIII, 510.
Smith, H. W., XVIII, 522.
Smith, J., XVIII, 400.
Smith, J. A., XVII, 471; XVIII, 31.
Smith, J. L., XVIII, 501.
Smith, N., XVIII, 363.
Smith, P., XVI, 564.
Smith, R. C., XVII, 619.
Smith, R. R., XVIII, 408.
Smith, T., XVI, 571.
Smith, W., XVIII, 515.
Smith, W. C., XVII, 593.
Smith, W. M., XVIII, 420.
Smuts, J. C., XVIII, 392.
Snellius, W., XVII, 155, 162, 428; XVIII, 159.
Snider, A., XVI, 509.
Sobhy, G. P. G., XVI, 539 XVII, 537.
Socrates, XVIII, 442.
Sofer, J., XVII, 479.
Sokolovsky, G. N., XVII, 505.

Solalinde, A., XVIII, 344.
Solieri, S., XVIII, 466.
Solmsen, F., XVIII, 443.
Solovine, M., XVII, 471.
Sontheimer, J. v., XVIII, 342, 389.
Soranos, XVIII, 338.
Sorokin, P. A., XVI, 564.
Sorte, C., XVII, 499.
Sottas, J., XVII, 219.
Soubeyran, XVIII, 359.
Soulié de Morant, G., XVII, 560.
South, H. P., XVIII, 450.
Southall, J., XVI, 170.
Soyter, G., XVI, 528.
Spackman, C., XVI, 553.
Spanton, W. D., XVII, 537.
Spargo, J. W., XVII, 604.
Sparkes, B., XVI, 118.
Sparks, J., XVI, 267, 272.
Sparrow, W. S., XVII, 512.
Spearman, C., XVIII, 405, 511.
Spears, J. R., XVI, 122.
Speiser, E. A., XVII, 539.
Spencer, B., XVII, 600.
Spencer, H., XVI, 329; XVII, 601.
Spencer, H. R., XVIII, 417.
Spencer, L. J., XVII, 522.
Spencer, W. G., XVI, 568; XVIII, 412.
Spengler, L., XVIII, 341, 389, 413.
Sperling, A., XVI, 569.
Speter, M., XVI, 499; XVII, 514, 518.
Spiegel, S., XVII, 567.
Spies, O., XVIII, 389.
Spiess, O., XVII, 510.
Spinoza, B., XVI, 500; XVII, 408-11; XVIII, 354.
Spir, A., XVII, 606.
Spranger, E., XVI, 497; XVII, 519.
Sprengel, K., XVIII, 413.
Sprengling, M., XVIII, 385, 454.
Sprockhoff, E., XVII, 598.
Śrīdhara, XVII, 25-33.
Śrīpati, XVII, 26 ff.
Ssuma Chēng-chēn, XVII, 442.
Ssŭ-ma Ch'ien, XVII, 441; XVIII, 221, 226, 227.
Staby, W., XVII, 583.
Stadelmann, R., XVI, 526.
Staderini, R., XVIII, 469.
Stahl, G. E., XVI, 552, 568; XVII, 510; XVIII, 398.
Staig, R. A., XVII, 516.
Stamm, E., XVII, 423.
Stammler, W., XVII, 546.
Stamp, J., XVIII, 502.
Stamper, A. W., XVII, 394.
Stanhope, P. D., XVI, 237.
Stanojević, L., XVIII, 524.
Stapleton, H. E., XVII, 571.
Starbuck, A., XVI, 119, 122.
Starkenstein, E., XVIII, 459.
Stay, W. J. van der, XVIII, 373.
Steedman, E. V., XVII, 601.
Steele, R., XVIII, 27.
Steen, J., XVIII, 463.
Stefánsson, V., XVI, 483.
Steffen, H., XVII, 592.
Stegagno, G., XVII, 516.
Stegemann, V., XVI, 479; XVIII, 341.
Stein, A., XVII, 550; XVIII, 486, 488.
Stein, E., XVII, 543.
Stein, W., XVI, 478.
Steinen, W. v. den, XVII, 495.
Steiner, J., XVIII, 522.
Steinheim, D., XVIII, 349.
Steinmann, G., XVII, 528.
Steinmetz, C. P., XVIII, 189.
Steinschneider, M., XVI, 418; XVII, 56, 220, 252.
Stempell, G. v., XVIII, 471.

Stenger, E., XVI, 508.
Stenzler, A. F., XVIII, 386.
Stephanides, M., XVII, 541.
Stern, P., XVII, 552.
Stern, W., XVIII, 405.
Stettebacher, H., XVII, 519.
Steuart, J., XVI, 284 f.
Stevens, C., XVIII, 134.
Stevens, J., XVIII, 134.
Stevens, H. N., XVI, 495; XVII, 504, 531.
Stevens, N. E., XVIII, 133-49.
Stevin, S., XVI, 277, 449; XVII, 403; XVIII, 162.
Stewart, B., XVI, 563.
Stewart, G., XVI, 489.
Sticker, G., XVI, 507, 614; XVIII, 458.
Stiebitz, F., XVI, 477.
Stieler, G., XVII, 509.
Stifel, M., XVIII, 161.
Still, G. F., XVII, 615; XVIII, 465.
Stillman, J. M., XVIII, 298.
Stillwell, M. B., XVI, 178-81; XVIII, 516.
Stimson, D., XVII, 126; XVIII, 103-17.
Stirling, J., XVIII, 158.
Stites, R. S., XVI, 490.
Stitt, E. R., XVI, 568; XVIII, 417.
Stölze, R., XVI, 330.
Stoever, E. R., XVII, 548.
Stokes, G. G., XVIII, 187.
Stolcenberg, S. de, XVIII, 304.
Stolz, T., XVIII, 353.
Stoner, J., XVIII, 401.
Stopes, M. C., XVI, 536.
Storch, T. C. v., XVI, 572.
Stow, G. W., XVI, 563; XVII, 601.
Strabo, XVIII, 337.
Strachey, R., XVIII, 522.
Strack, H. L., XVIII, 490.
Strahm, H., XVII, 509.
Straker, E., XVII, 583.
Strampf, I. v., XVI, 526.
Stratman-Thomas, W. K., XVI, 491; XVIII, 347.
Strauss, O., XVI, 511; XVII, 606.
Strecker, K., XVII, 482, XVIII, 450.
Streete, T., XVIII, 116.
Streeter, B. H., XVIII, 522, 530.
Stricker, W., XVIII, 346, 347, 349, 413, 419.
Strieby, W., XVII, 390.
Strindberg, N., XVII, 526; XVIII, 367.
Stroobant, P., XVIII, 499.
Struik, D. J., XVIII, 197, 496.
Strunz, F., XVI, 491; XVIII, 346.
Struve, XVI, 446.
Struve, W. W., XVI, 148-55; XVII, 404; XVIII, 482.
Strzygowski, J., XVII, 548.
Stubbe, H., XVIII, 103.
Stubbs, G., XVII, 512.
Stubbs, S. G. B., XVII, 612.
Stülpner, K., XVIII, 513.
Stumpf, C., XVI, 497; XVIII, 405.
Stur, J., XVIII, 452.
Sturmer, J. W., XVIII, 527.
Su Tung-p'o, XVII, 443.
Suchten, A. v., XVI, 491.
Suckow, G. F. W., XVIII, 336.
Sudhoff, K., XVI, 177, 485, 491, 520, 569; XVII, 283; XVIII, 384, 458, 484, 485.
Suhle, A., XVII, 597.
Suhrāb, XVII, 482.
Suidas, XVII, 482.
Sukthankar, V. S., XVII, 556.
Sulaymān, XVII, 481.
Sulaymān b. Aḥm. al-Fishtālī, XVIII, 183.

Sullivan, J. W., XVII, 403.
Sulze, H., XVII, 541.
Sumivala, C. S., XVI, 533.
Summers, M., XVI, 497, 563; XVII, 603.
as-Sunbāṭī, XVIII, 177.
Surís y de Montpalau, A. C., XVI, 173.
Sūryadāsa, XVII, 25.
Sushruta, XVI, 12; XVII, 420; XVIII, 224.
Suter, H., XVI, 406, 410; XVII, 247, 400; XVIII, 166 ff.
Suttina, L., XVII, 473.
Suzuki, D. T., XVII, 556.
Sverdrup, O., XVIII, 368.
Swanton, J. R., XVIII, 478.
Swammerdam, J., XVI, 316, 465; XVII, 320.
Swann, N. L., XVIII, 444.
Swann, W. F. G., XVII, 521.
Swanton, J. R., XVIII, 512.
Swindler, M. H., XVIII, 377.
Swingle, W. T., XVI, 535.
Swinton, A. A. C., XVIII, 367.
Sydenham, T., XVI, 473, 500; XVIII, 353, 354, 415.
Sykes, J., XVII, 128.
Sykes, P., XVI, 539.
Symcott, J., XVI, 55-81.
Synge, J. L., XVII, 520.
Szczygiel, P. P., XVIII, 193-95.
Szidat, L., XVIII, 477.
Szücs, A., XVII, 422.
Szumowski, W., XVII, 612.

T

Tabouis, G. R., XVIII, 380, 482.
Tachenius, O., XVI, 440 ff.
Tägert, F., XVI, 547.
Täubler, E., XVIII, 442.
Tai Shêng, XVIII, 217.
Tait, E. S. R., XVII, 505.
al-Tājūrī, XVIII, 177, 179.
Tagaki, K., XVI, 536.
Takanuki, T., XVII, 264.
Takekoshi, Y., XVII, 563.
Talleyrand-Périgord, A. A., XVI 278 ff., 310.
Ṭallents, F., XVIII, 84.
Tamgrouti, Aboul-H. A. b. Moḥ., XVII, 502.
Tamiya, H., XVI, 555.
Tanner, J. R., XVII, 487.
Tannery, J., XVII, 393, 443.
Tannery, Mme P., XVI, 155, 156; XVIII, 366.
Tannery, P., XVI, frontispiece (portr.), 155-57, 191, 192, 200, 546, 548; XVII, 219, 233 ff.; XVIII, 366, 377 494.
Tanzer, K., XVI, 508.
T'ao Hung-ching, XVII, 442.
Tarde, J., XVII, 200.
Targa, L., XVIII, 337.
Tarn, W. W., XVIII, 382.
Tarrell, J., XVII, 538.
Tass, A., XVII, 422.
Tatlock, J. S. P., XVII, 485.
Taylor, A. E., XVIII, 443.
Taylor, A. P., XVII, 512.
Taylor, C. H., XVI, 523.
Taylor, E. G. R., XVII, 496, 500, 505; XVIII, 346, 347, 404.
Taylor, F. S., XVII, 541.
Taylor, H. L., XVI, 512.
Taylor, W. B., XVI, 160.
Tchao-ts'ing, Ting, XVII, 560.
Tchékov, A., XVIII, 476.
Tchihatchef, P. de, XVII, 173.
Teeple, J. E., XVI, 459-62; XVIII, 499.
Tefabi, XVII, 7 ff.

Tegeler, E., XVIII, 358.
Teichmeyer, H. F., XVIII, 501.
Teit, S. A., XVII, 601.
Teleky, XVIII, 527.
Temkin, O., XVI, 569; XVII, 477; XVIII, 448.
Temple, R. C., XVII, 496; XVIII, 368.
Temple, W., XVIII, 522.
Têng, XVIII, 444.
Teresa, St., XVII, 272.
Terman, L. M., XVII, 594.
Terry, R. R., XVII, 544; XVIII, 484.
Tesnière, L., XVIII, 519.
Testman, P., XVII, 522.
Textor, C., XVIII, 472.
Thābit ibn Qurra, XVI, 451, 481; XVII, 46, 53; XVIII, 171.
Thackeray, H. St. John, XVII, 474; XVIII, 338.
Thaer, D. A., XVI, 505.
Thales of Milet, XVI, 87 f.; XVII, 273, 420, 552.
Thaller, L., XVIII, 524.
Thebesius, C., A. XVII, 506.
Thenard, J., XVI, 552.
Theodor, O., XVII, 564.
Theodore of Tarsus, XVII, 261, 262.
Theodosios of Tripoli, XVII, 53; XVIII, 498.
Theophrastos, XVI, 436; XVII, 420; XVIII, 407, 443.
Thiel, R., XVII, 612.
Thierfelder, J. G., XVIII, 342, 354, 377.
Thiersch, H., XVII, 510.
Thiéry, M., XVII, 516.
Thillaye, J. B. J., XVIII, 124.
Thimonnier, B., XVII, 521.
Thomas, B., XVII, 571.
Thomas, E. J., XVII, 555.
Thomas, W. R., XVIII, 482.
Thomas de Bayeux, XVI, 197 f.
Thomas de Marlebergh, XVIII, 15.
Thompson, d'Arcy W., XVII, 415.
Thompson, B., XVII, 521; XVIII, 360, 501.
Thompson, C. J. S., XVI, 563, 570; XVIII, 351.
Thompson, H., XVII, 548.
Thompson, J. E., XVIII, 394.
Thompson, J. W., XVI, 188 ff.; XVII, 262, 546.
Thompson, M., XVII, 446.
Thompson, R. C., XVI, 518.
Thompson, S. P., XVII, 393.
Thomsen, P., XVII, 479, 568; XVIII, 385, 448.
Thomsen, V., XVIII, 519.
Thomson, J. A., XVIII, 403.
Thomson, J. J., XVIII, 188.
Thomson, St. Clair, XVIII, 417, 527.
Thomson, W., XVI, 132-36; XVIII, 186 f., 445.
Thonmi Sambhota, XVIII, 448.
Thorade, H., XVII, 592.
Thórdarson, M., XVI, 483.
Thoreau, H. D., XVII, 446.
Thorington, J. M., XVII, 592.
Thorláksson, G., XVI, 557.
Thorláksson, T., XVI, 557.
Thorndike, L., XVI, 193, 447, 487, 488, 526, 528, 542, 546; XVII, 34 ff., 490; XVIII, 63-76, 204, 208, 455, 485.
Thucydides, XVIII, 335, 441, 442.
Thurneysser, L., XVI, 440.
Thurow, W. H., XVIII, 502.
Thwing, C. F., XVII, 617.
Tilliot, J. B. L. de, XVIII, 465.
Tiltman, H. H., XVIII, 391

Timchenko, I. U., XVII, 391.
Timerding, H. E., XVIII, 157.
Timmermans, J., XVIII, 398.
Tin, Pe Maung, XVII, 478.
Tiraboschi, G., XVII, 37 f., 91.
Tischbierek, H., XVII, 587.
Titherley, A. .W, XVIII, 391.
Titus, M. T., XVI, 542.
Tkatsch, J., XVI, 542.
Tobey, J., XVI, 570.
Todhunter, I., XVIII, 497.
Toeplitz, O., XVII, 577; XVIII, 496.
Tomes, J., XVIII, 526.
Tomita, K., XVII, 561.
Tommasina, T., XVI, 160.
Tompion, T., XVII, 510.
Torday, E., XVII, 601.
Torres, C. de, XVI, 500.
Torres, L. V. de, XVI, 495.
Torricelli, E., XVI, 493; XVII, 575; XVIII, 349.
Touraeff, B., XVII, 538.
Tournefort, J. P. de, XVII, 508.
Toutain, J., XVIII, 383.
Tower, W. S., XVI, 122.
Tracy, H. C., XVII, 445-46.
Trafali, O., XVI, 528.
Tranchina, G., XVII, 523.
Trapham, T., XVIII, 353, 462.
Traubenberg, M. F. R. v., XVIII, 499.
Traumüller, XVII, 392.
Trautmann, R., XVII, 485.
Trautz, M., XVII, 522.
Treutlein, P., XVI, 193; XVIII, 157.
Tribolet-Hardy, F. M. de, XVII, 527.
Tricot-Royer, J., XVII, 423.
Triesnecker, P. F., XVII, 260.
Trinkler, E., XVI, 530; XVIII, 486.
Trionfetti, G. B., XVII, 318-20.
Tripp, G. H., XVI, 122.
Troilus, XVII, 490.
Troland, L. L., XVIII, 511.
Tropfke, J., XVII, 577; XVIII, 153.
Trotula, XVI, 484.
Trowbridge, XVIII, 187.
Trowbridge, M. L., XVIII, 377.
Tschirnhaus, XVI, 501.
Tschirnhausen, E. W., XVIII, 352.
Tscholakowa, M., XVI, 555.
Tschudi, XVIII, 353.
Tsing Tung chun, XVII, 561.
Tsou Yen, XVIII, 221, 222.
Tsung Chêng, XVIII, 230.
Tubeuf, (family), XVIII, 466.
Tucci, G., XVII, 556.
Tuckerman, F., XVII, 618.
Tuckermann, E., XVIII, 137 ff.
Türck, XVIII, 527.
Tuffier, M. T., XVI, 571.
Tufnel, O., XVII, 567.
Tung Chung-shu, XVIII, 221.
Turajeff, B. A., XVI, 148-55; XVIII, 482.
Turnbull, G. H., XVII, 608.
Turnbull, H. W., XVII, 577.
Turner, D. R., XVII, 550, 556-67.
Turner, E. M., XVII, 514.
Turner, R. L., XVII, 550, 556-57.
Tykocinski, H., XVII, 568.
Tyler, A. E., XVII, 612.
Tyler, H. W., XVII, 126.
Tyler, J. E., XVI, 526; XVIII, 384.

U

'Ubaidallāh, XVI, 486.
'Ubaidallāh ibn Baktishū', XVI, 483.

'Ubaidallāh b. Jibrā'il, XVIII, 447.
Ueta, J., XVII, 561.
Uexküll, J. v., XVII, 277.
Ugolini, B., XVII, 279.
Ugolini, U., XVI, 495.
Uhde, R., XVII, 540; XVIII, 441.
Uhden, R., XVII, 479.
'Umar b. al-Farrukhān al-Ṭabarī, XVIII, 170.
Umāsvāti, XVI, 531; XVII, 27.
Unger, E., XVII, 539.
Unger, H., XVIII, 370.
Ungnad, A., XVIII, 380.
Upton, N., XVII, 490.
Urbain, G., XVIII, 392.
Ure, A., XVIII, 124.
Uring, N., XVII, 511.
Urquhart, D., XVIII, 406.
Urtin, H., XVII, 575.
Uṣaibi'a, ibn abī, XVI, 10, 485; XVII, 483; XVIII, 166, 447 ff.
Usāmah ben Murshid, *see* Munqidh Usāmah, ibn.
Uspenkij, T., XVI, 529.
Ussani, V., XVII, 473.
'Uthmān al-Dimishqī, abū, XVI, 132.
Uyeda, M., XVI, 535.

V

Vacca, G., XVII, 394, 561.
Vāgbhaṭa I, XVI, 13.
Vāgbhaṭa II, XVI, 13.
Valla, G., XVI, 138.
Valli, L., XVII, 489.
Vallisneri, A., XVI, 501; XVII, 290-324 (portr.); XVIII, 465.
Valsalva, A. M., XVIII, 466.
Vanbrugh, J., XVII, 507.
Van Buren, A. W., XVIII, 339, 483.
Van Buren, E. D., XVIII, 381, 483.
Vancouver, G., XVII, 515.
Van Helmont, F. M., XVI, 142, 552, 568.
Van Sickle, C. E., XVI, 520.
Van't Hoff, J. H., XVI, 552.
Varāhamihira, XVII, 556; XVIII, 432.
Varma, S., XVII, 557.
Varthema, L. de, XVII, 496.
Vasconcellos, E. de, XVII, 505.
Vasilier, A. A., XVI, 529.
Vassilief, A. V., XVI, 548.
Vasmer, R., XVII, 597.
Vaucaire, M., XVII, 527.
Vauquelin, L. N., XVI, 552.
Veitch, G. S., XVIII, 361.
Vela, V. B. N., XVII, 498.
Venzmer, G., XVI, 572.
Vera, F., XVIII, 449, 456.
Verea, R., XVIII, 475.
Verga, E., XVII, 493.
Vergil, P., XVII, 71-93 (portr.).
Vernon, H. M., XVIII, 516.
Verster, J. F. L. de Balbian, XVII, 511.
Vésale, A., XVI, 491; XVII, 496; XVIII, 79, 80, 457.
Vesey-Fitzgerald, S., XVII, 571.
Vespucci, A., XVII, 495.
Vetter, Q., XVI, 549; XVII, 422, 499.
Vhink, W., XVIII, 504.
Vicarius, F., XVI, 445.
Vicary, T., XVI, 472.
Vickery, H. B., XVIII, 373.
Vico, G., XVII, 513.
Victorius, XVI, 412.
Vieta, XVII, 99.
Viets, H. R., XVI, 546, 570; XVIII, 459, 462, 473, 526, 527.
Vieussens, R., XVIII, 356.
Vieyra, D., XVIII, 467, 469.

Viguera, J. S., XVII, 219.
Villa Dei, A. de, XVI, 419.
Villena, XVIII, 456.
Villeneuve, de la Bigne de, XVIII, 523.
Villeneuve, J. P., de, XVI, 278.
Vinchon, J., XVII, 613.
Vindalius Anatolius, *see* Anatolius of Beirut.
Vinogradoff, P., XVI, 178.
Viola, G., XVII, 489.
Virchow, R., XVI, 506, 510, 571.
Virgilius, P. M., XVI, 478; XVII, 473.
Virolleaud, C., XVI, 512.
Visconti, A., XVII, 493.
Vivielle, J., XVIII, 400.
Vitruvius, P., XVII, 414, 419.
Viviani, U., XVIII, 463.
Vocht, H. de, XVII, 497.
Vogel, J. P., XVII, 557.
Vogel, K., XVI, 516, 519; XVII, 538; XVIII, 378, 379, 382, 394, 482, 483, 488.
Vogels, H. J., XVII, 475; XVIII, 519.
Voit, C. v., XVIII, 476.
Volckmann, G. A., XVIII, 465.
Volckmann, I., XVIII, 465.
Volta, A., XVII, 514; XVIII, 77.
Voltaire, XVI, 238; XVII, 171 ff., 435, 512, 518, 520; XVIII, 466.
Volterra, V., XVI, 547; XVIII, 361.
Vorberg, G., XVIII, 525.
Voretzsch, E. A., XVII, 498.
Vorkastner, W., XVIII, 524.
Vorwahl, H., XVI, 572; XVIII, 527.
Vowles, H. P., XVII, 412-20, 475; XVIII, 504.
Vowles, M. W., XVIII, 504.
Vullers, J. H., XVIII, 386.
Vulliamy, C. E., XVII, 520.
Vyver, A. van de., XVII, 479.

W

Waard, C. de, XVI, 156; XVIII, 350.
Wackenroder, H. W. F., XVII, 408 f.; XVIII, 501.
Waddel, H., XVI, 527.
Waddel, L. A., XVIII, 379.
Wagner, F., XVIII, 342, 452.
Wagner, H., XVII, 592.
Wahl, J., XVII, 525; XVIII, 375.
Wainwright, G. A., XVII, 538; XVIII, 7.
Waite, XVIII, 303.
Wakeman, A. M., XVIII, 374.
Wakkernagel, W, XVIII, 344.
Walahfrid v. Reichenau, XVI, 202.
Walcher, XVIII, 24.
Walcher of Malvern, XVI, 198, 200.
Walden, P., XVIII, 468.
Waldschmidt, E., XVII, 470.
Waldseemüller, M., XVIII, 353.
Waley, A., XVII, 440-43, 486; XVIII, 486.
Walker, M. E. M., XVI, 472-74; XVIII, 524.
Wallace, A. R., XVI, 509.
Wallerius, J. G., XVI, 446.
Wallin, G. A., XVII, 522 f.
Wallis, J., XVI, 498; XVII, 341; XVIII, 85, 99, 164.
Wallon, H., XVII, 595.
Walsh, J., XVII, 476; XVIII, 340.
Walsh, J. J., XVI, 527.
Walter, XVI, 197.
Walter of Speyer, XVI, 398 f.
Walter, T., XVIII, 136 ff.
Walters, T. J., XVI, 483.

Walther, J., XVI, 143-45, 503; XVIII, 468.
Walton, F. P., XVIII, 515.
Walton, J., XVIII, 446.
Walzer, R., XVIII, 443.
Wandād Hurmuzd, XVI, 9, 11.
Wantzel, P. L., XVII, 398.
Ward, E., XVIII, 374.
Ward, R. C. de, XVIII, 510.
Ward, S., XVIII, 85.
Warmington, E. H., XVIII, 376.
Warner, W., XVII, 102.
Warner, W. H. L., XVIII, 385.
Warnsinck, J. C. M., XVII, 508.
Warren, F. P., XVIII, 475.
Warren, H. A., XVIII, 368.
Warren, H. C., XVIII, 405.
Warthin, A. S., XVI, 570; XVII, 282-83, 586, 604; XVIII, 414.
Washburn, M. F., XVIII, 511.
Washington, G., XVI, 288, 297.
Wasman, E., XVIII, 368.
Waterston, J., XVII, 531.
al-Wāthiq, XVI, 11.
Watkin, A. I., XVIII, 446.
Watson, D. K., XVI, 272.
Watt, XVII, 514.
Watts, E. P., XVII, 527.
Wayling, H. G., XVIII, 361.
Weale, W. H. J., XVIII, 522.
Webb, A., XVIII, 386.
Webb, C. C. J., XVI, 494.
Webb, R. S., XVII, 588; XVIII, 438.
Weber, C. F., XVIII, 382.
Weber, W., XVIII, 187, 379.
Weckerling, A., XVII, 557.
Weddel, XVIII, 369.
Wedekind, E., XVII, 526.
Wedel, G. W., XVIII, 500.
Wedel, J. A., XVIII, 501.
Wedemeyer, A., XVIII, 489.
Wegener, A., XVI, 509.
Wegener, G., XVII, 561.
Wegener, H., XVIII, 485, 530.
Wehberg, H., XVII, 509.
Wehrli, G. A., XVII, 612.
Wei, Po-yang, XVII, 441, 475; XVIII, 210-89.
Weidenreich, F., XVIII, 472.
Weil, E., XVI, 490.
Weil, G., XVII, 571.
Weill, R., XVII, 538.
Wein, K., XVII, 499; XVIII, 461, 463.
Weinberg, S. J., XVIII, 527.
Weinberger, B. W., XVI, 500, 570.
Weinberger, O., XVIII, 515.
Weinert, H., XVI, 562.
Weinrich, W., XVIII, 161.
Weiss, A., XVI, 507.
Weiss, A. P., XVIII, 511.
Weiss, H. B., XVI, 145; XVIII, 472.
Weiss, J., XVII, 530.
Weissbach, F. H., XVI, 517.
Weissenborn, H., XVII, 221, 244.
Weissermel, W., XVIII, 476.
Weitnauer, A., XVIII, 459.
Welborn, M. C., XVI, 176-78, 188-99; XVII, 209, 213 f., 260-63, 436-88; XVIII, 26-62, 451.
Welch, A. C., XVII, 470.
Welch, W. H., XVI, 570; XVII, 466, 529; XVIII, 374, 412.
Welcker, F. G., XVIII, 382.
Weld, C. R., XVII, 131; XVIII, 103.
Wellesz, E., XVII, 548.
Wellmann, M., XVI, 477.
Wells, G. P., XVII, 585.
Wells, H. G., XVII, 585; XVIII, 78.
Wendt, A., XVIII, 364.

Wendt, J., XVIII, 364.
Werndl, J., XVI, 508.
Werinkar, XVI, 194.
Wertheim, G., XVII, 55.
Wesendonk, O. G. v., XVI, 540.
Wessels, C., XVII, 499.
Wessely, K., XVI, 145.
West, E., XVI, 573; XVIII, 418.
Westegaard, W., XVIII, 465.
Westermarck, E., XVII, 571.
Wetzel, F., XVII, 539.
Wetzstein, J. G., XVII, 571.
Weulersse, G., XVII, 520.
Weyde, A. J. van der, XVI, 492; XVIII, 473, 527.
Weyl, H., XVI, 223 ff., 427; XVII, 577.
Weynants-Ronday, XVIII, 482.
Wharton, F., XVI, 267.
Wheatley, H. B., XVIII, 98, 99.
Wheeler, G. C., XVII, 530; XVIII, 510.
Wheeler, L. R., XVI, 531.
Wheeler, W. M., XVII, 588.
White, C., XVIII, 417.
White, F. P., XVII, 509.
White, G., XVII, 515; XVIII, 468.
Whitehead, A. N., XVII, 575; XVIII, 375.
Whitehouse, J. H., XVIII, 373.
Whiteside, J., XVI, 233.
Whitney, W. R., XVIII, 361.
Whittaker, E. T., XVII, 507.
Whymper, C., XVII, 538.
Wickersheimer, E., XVI, 484; XVIII, 345.
Widgery, A. G., XVII, 605.
Wiedemann, E., XVI, 488, 542; XVII, 279.
Wiegand, T., XVII, 529.
Wieger, L., XVIII, 225.
Wieleitner, H., XVII, 264, 403; XVIII, 150-65 (portr.), 350, 352, 462.
Wiener, P. P., XVIII, 394.
Wiese, E. R., XVIII, 364, 370.
Wiet, G., XVIII, 491.
Wigram, W. A., XVII, 549.
Wilamowitz-Moellendorff, U. v., XVII, 469.
Wilcke, J., XVII, 597.
Wildeman, E. de, XVIII, 507.
Wilensky, M., XVI, 483.
Wilcken, U., XVII, 472.
Wilhelm, R., XVII, 561.
Wilkens, O., XVII, 528.
Wilkins, H., XVI, 380.
Wilkins, J., XVII, 106, 123, 125; XVIII, 105, 110, 115 f.
Wilkinson, C., XVI, 499.
Wilkinson, J. V. S., XVI, 482.
Willan, R., XVIII, 357.
Willard, J. F., XVII, 546.
Willcocks, W., XVIII, 387.
Wille, XVII, 615.
William the Conqueror, XVI, 197.
William of Vere, XVIII, 20, 24.
Williams, A. L., XVII, 476.
Williams, C. B., XVII, 588.
Williams, C. F. A., XVII, 281.
Williams, J. R., XVII, 486.
Williamson, J. A., XVII, 496.
Willis, B., XVI, 509.
Willis, T., XVIII, 85, 415.
Willughby, F., XVII, 104, 106.
Wilms, P. H., XVI, 486.
Wilson, A., XVII, 446.
Wilson, A. T., XVII, 571.
Wilson, E. A., XVIII, 372.
Wilson, J., XVIII, 388.
Wilson, R., XVIII, 364.
Wilson, R. M., XVIII, 414.
Winderlich, R., XVI, 508.
Windred, G., XVIII, 184-90.

Wingate, S. D., XVII, 546; XVIII, 202.
Winkler, C., XVI, 552.
Winkler, H. A., XVII, 571.
Winkler, L., XVIII, 458.
Winlock, H. E., XVII, 539.
Winternitz, M., XVI, 533.
Winthuis, J., XVIII, 513.
Wise, T. A., XVIII, 387.
Witelo, XVI, 486.
Withington, E., XVIII, 26, 58.
Withington, T., XVI, 13.
Witt, O. N., XVI, 432.
Wittek, P., XVII, 571.
Wittfogel, K. A., XVI, 535.
Wöhler, F., XVI, 552.
Wölfflin, E., XVIII, 467.
Woepcke, F., XVI, 133, 394 ff.
Wolf, R., XVI, 551; XVII, 526.
Wolf, W., XVII, 539.
Wolff, C. F., XVI, 317, 326 f., 333 ff., 465.
Wolff, F. v., XVI, 145.
Wolfger of Ellenbrechtskircken, XVI, 527.
Wolfson, H. A., XVI, 489; XVII, 486.
Wolter, F., XVIII, 527.
Wong, K. C., XVIII, 527 f.
Wood, A., XVIII, 103, 522.
Wood, C. A., XVI, 485; XVIII, 207.
Woodhouse, J., XVIII, 501.
Woodhouse, W. J., XVIII, 441.
Woodruff, H., XVI, 481.
Woodward, M., XVIII, 507 f.
Woodworth, R. S., XVIII, 511.
Wooley, C. L., XVII, 540, 597.
Wordie, J. M., XVIII, 368.
Worts, F. R., XVI, 521.
Wotton, H., XVIII, 83.
Woyciech of Brudzew, XVI, 137.
Wren, C., XVII, 507; XVIII, 85, 99, 108, 110 f.
Wright, E., XVII, 115 f.
Wright, E. H., XVII, 520.
Wright, F. A., XVII, 547; XVIII, 451.
Wright, J., XVII, 601; XVIII, 406.
Wright, K. M., XVIII, 389.
Wright, L., XVIII, 462.
Wright, T., XVIII, 128 ff.
Wright, W. C., XVI, 138-41; XVIII, 458.
Wu, Lu-Ch'iang, XVII, 441, 475; XVIII, 210-89.
Wu-ti, XVIII, 227.
Würschmidt, J., XVI, 542; XVII, 221.
Wüstenfeld, F. W., XVIII, 345.
Wulff, W., XVII, 488.
Wurtz, C. A., XVI, 545, 552.
Wyatt, J., XVIII, 354.
Wydo de Crema, XVIII, 17.
Wylie, A., XVIII, 215.
Wymondesold, M., XVII, 345.

X

Xenophon, XVIII, 442.

Y

Yahuda, A. S., XVII, 568.
Yaḥiā b... al-Maghribī al Ru'ainī al-Ḥaṭṭāb, XVIII, 179.
Yaḥiā b. abī l-Shukr, XVIII, 172.
Yaḥiā al-Marwāzī, abū, XVIII, 174.
Yaḥyā b. Māsawaih, XVI, 7, 12, 14.
Yaḥyā bin Sarāfyūn, XVII, 481.
Yalden, E. G., XVI, 551.
Yalden, J., XVI, 551.
Yamagiva, K., XVI, 571.
Yamakami, S., XVIII, 522.

Yamamoto, I., XVII, 425-27.
Ya'qūb Yūsuf b. Ya'qūb b. 'Abd al-Ḥaqq, XVIII, 173.
Yāqūt, XVI, 13.
al-Yāsmīnī, ibn, XVIII, 172, 175.
Yazdani, G., XVII, 558.
Yntema, H., E. XVIII, 515.
Yi-Pao Mei, XVIII, 442.
Yōrāh, XVII, 546.
Yorke, A., XVIII, 449.
Young, A. E., XVIII, 372.
Young, James, XVI, 500.
Young, Jean, XVIII, 346.
Young, J. W. A., XVII, 393.
Young, R. F., XVI, 497.
Young, T., XVIII, 362.
Yü Yen, XVIII, 211, 284.
Yūnus, ibn, XVII, 250, 253; XVIII, 451.
Yūsuf b. Isḥāq Biklārish, XVII, 485.

Z

Zaccaria, XVII, 485.
Zach, F. de, XVII, 260.
Zachaire, D., XVI, 492; XVIII, 275, 276.
Zacharei, XVIII, 455.
Zadith, XVII, 571.
Zakariyā al-Awsī, ibn, XVIII, 177.
Zambeccari, XVII, 610.
Zarathustra, XVII, 568.
al-Zarqālī, XVII, 249 ff.
Zatschek, H., XVI, 528.
Zaunick, R., XVII, 499, 525.
Zavrnik, F. L., XVIII, 524
Zeilon, N., XVII, 525.
Zeisler, E. B., XVIII, 395.
Zeiss, H., XVII, 612; XVIII, 478.
Zeitlin, S., XVII, 475.
Zembrzuski, L., XVII, 612.
Zeeman, P., XVIII, 361.
Zen, H. C., XVII, 562.
Zenneck, J. A. W., XVIII, 367.
Zeno of Elea, XVII, 396, 398.
Zeuch, L. H., XVII, 612.
Zeuthen, H. G., XVII, 396; XVIII, 366, 494.
Ziegler, G. M., XVI, 145-46; XVIII, 472.
Ziehen, T., XVI, 144; XVIII, 405.
Ziesemer, W., XVII, 488.
Zimmermann, H., XVII, 516.
Zingali, G., XVIII, 497.
Zingarelli, N., XVIII, 456.
Zinner, E., XVI, 92-101, 161-67, 528; XVII, 18; XVIII, 396, 482.
Zoboli, P., XVIII, 466.
Zöbisch, E., XVII, 600.
Zoege v. Manteuffel, W., XVII, 529.
Zozimos, XVI, 431, 552; XVIII, 263, 267, 271.
Zurara, G. E. de, XVII, 492.
Zuretti, C. O., XVI, 487.
Zurraiq, ibn, XVIII, 175.
Zwaardemaker, H., XVIII, 405.
Zweig, S., XVII, 612.
Zycha, A., XVI, 178.

Brief Table of Contents of Volume XVIII (1932).

(614 p., 10 plates, 1 facsimile)

E. DARMSTAEDTER. — Die Sator-Arepo-Formel une ihre Erklärung 322
S. R. DAS. — The Jaina Calendar 432
H. W. DICKINSON. — J. O. HALLIWELL and the Historical Society of Science (London, 1841) 127
J. F. FULTON. — ROBERT BOYLE and his influence on thought in the seventeenth century 77
E. A. GUILLEMIN. — Early developments in electromagnetic theory, with two unpublished letters by A. M. AMPÈRE 118
M. NIERENSTEIN and P. F. CHAPMAN. — Enquiry into the authorship of the *Ordinall of Alchimy* 290
A. POGO. — The astronomical inscriptions of the coffins of ḤENY (XIth dinasty?) 7
H. P. J. RENAUD. — Additions et corrections à SUTER " Die Mathematiker und Astronomen der Araber " 166
J. RUSKA. — HEINRICH WIELEITNER (1874-1931) 150
J. C. RUSSELL. — Hereford and Arabic science in England about 1175-1200 14
N. E. STEVENS. — The mycological work of H. W. RAVENEL . 133
D. STIMSON. — " Ballad of Gresham Colledge " 103
L. THORNDIKE. — RUFINUS : A forgotten botanist of the thirteenth century 63
M. C. WELBORN. — The errors of the doctors according to Friar ROGER BACON of the Minor Order 26
G. WINDRED. — The relation between pure and applied electrical theory : with special reference to mathematical methods . . 184
L. C. WU and T. L. DAVIS. — An ancient Chinese treatise on alchemy entitled *Ts'an T'ung Ch'i* 210

Thirty-third Critical Bibliography of the History and Philosophy of Science and of the History of Civilization (to December 1931) (610 items) 334

Thirty-fourth Critical Bibliography of the History and Philosophy of Science and of the History of Civilization (to March 1932) (761 items) 440
Index of Authors to Volumes XVI, XVII, and XVIII 541

For Notes and Correspondence (14 in number), Reviews (10), *Plates* (10), *see the summaries at the beginning of Nos* 52 *and* 53.

Contributors to this volume :

C. W. ADAMS *(Hertford)*
C. J. ANGER *(Cambridge, Mass.)*
H. G. BÉVENOT *(Weingarten Abbey, Württemb.)*
N. T. BOBROVNIKOFF *(Delaware, Ohio)*
F. E. BRASCH *(Washington, D. C.)*
P. F. CHAPMAN *(Bristol)*
E. DARMSTAEDTER *(München)*
S. R. DAS *(Calcutta)*
T. L. DAVIS *(Cambridge, Mass.)*
H. W. DICKINSON *(Purley)*
F. M. FELDHAUS *(Berlin)*
J. M. FULTON *(New Haven, Conn.)*
S. GANDZ *(New York City)*
E. A. GUILLEMIN *(Cambridge, Mass.)*
L. GUINET *(Brussels)*
C. A. KOFOID *(Berkeley, Calif.)*
E. KREMERS *(Madison, Wisc.)*
C. D. LEAKE *(San Francisco)*
M. NIERENSTEIN *(Bristol)*
J. R. PARTINGTON *(Wembley)*
J. PELSENEER *(Brussels)*
A. POGO *(Cambridge, Mass.)*
H. P. J. RENAUD *(Rabat)*
J. RUSKA *(Berlin)*
J. C. RUSSELL *(Chapel Hill, North Carolina)*
L. SAPIN *(Brussels)*
G. SARTON *(Cambridge, Mass.)*
N. E. STEVENS *(Washington, D. C.)*
D. STIMSON *(Baltimore, Md.)*
L. THORNDIKE *(New York City)*
H. R. VIETS *(Boston)*
M. C. WELBORN *(Cambr., Mass.)*
R. S. WEBB *(Pearl, South Africa)*
G. WINDRED *(Bedford)*
L. C. WÜ *(Cambridge, Mass.)*

Authors whose books are reviewed :

ALMQUIST, E.
BRASCH, F. E.
CAMPBELL, A. M.
DAVIS, H. T.
ECKSTEIN, G.
JOHNSON, E. H.
MILLÀS VALLICROSA, J.
RUDWIN, M.
RUFUS, W. C.
STRUIK, D. J.
SZCZYGIEL, P. P.
WINGATE, S. D.
WOOD, C. A.